ATLAS

contractor's handbook

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ATLAS

BUILDING TOMORROW

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contractor's handbook

FOREWORD

Dear Customers,

We hereby present you with the new edition of CONTRACTOR'S HANDBOOK. This time, we have updated contents and form:
- tables contain more extensive information about different products,
- we have prepared practical guidance concerning the requirements and rules for the application of the products for each product category,
- we present the essence of the innovative technologies implemented in our products.

As always, HANDBOOK contains new products:
- Geoflex Express – rapid-set adhesive in the Geoflex "family",
- CERAMIC Grout – a new cement-based product with excellent processing properties equalling the performance of resin grouts,
- UNI-GRUNT ULTRA – a product which proves that it is still possible to make an innovation in field of primers.

Of course, that is not all:
- we recall the advantages of the ATLAS gel technology,
- we point out the advantages of the rapid set waterproofing ATLAS WODER EXPRESS as well as ATLAS terrace profiles, including ATLAS 102 drip profile,
- we summarize the requirements for substrates and application technologies for the SMS, SAM and POSTAR screeds and floors. At this point, we draw attention to the quick setting of ATLAS products,
- we present the application of uncoupling mat ATLAS T-100 - an ideal solution for difficult cases in refubrishment work,
- we have put together ATLAS thermal insulation systems with special emphasis on the gel adhesives (Hoter U2, U2B), which can be applied in a wide temperature range,
- we present wide range of ATLAS decorative renders and highlight the unique properties of silicone paint ATLAS SALTA N PLUS,
- we present the characteristics and properties of our supplementary products: cleaning, impregnating and care agents,for use on construction sites as well as for the subsequent maintenance of various surfaces,
- we present our line for building refubrishment, divided into five subsystems with complete sets for specific scopes of work,
- a new uses for ATLAS M-System 3G. 50 mm anchors and adjustable spacing between anchor and substrate, useful for installation of drywall in attics. In addition, this system is also applicable for installation of floor which will be useful for refubrishment and adaptation work.

We hope that the CONTRACTOR'S HANDBOOK with its new design will appeal to you and help you choose the right ATLAS products and system solutions in your daily work.

Dr. Eng. Mariusz Garecki Director of Product Development and Training

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Adhesives for tiles, grouts, silicones

ATLAS PLUS

PRODUCT	ATLAS PLUS S2 HYDRO	ATLAS PLUS	ATLAS PLUS WHITE	ATLAS PLUS EXPRESS	ATLAS PLUS MEGA	ATLAS PLUS MEGA WHITE
	Highly deformable adhesive S2 with water-proofing function	Deformable adhesive S1	White deformable adhesive S1	Rapid-set deformable adhesive S1	Deformable adhesive S1 for large-size tiles	White deformable adhesive S1 for floor tiles
Reference document	PN-EN 12004+A1:2012 PN-EN 14891:2012	PN-EN 12004+A1:2012				
Package size (kg)	15	5; 10; 25	5;, 25	25	25	25
Type of packaging	foil	foil / alubag (5 kg)	foil / alubag (5 kg)	foil	foil	foil
TECHNICAL DATA						
Class	C2TE S2	C2TE S1	C2TE S1	C2FTE S1	C2E S1	C2E S1
Fibre-reinforced	+	+				
Double-fibre technology	+	+				
Adhesive strength (N/mm²)	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0
Bed thickness (mm)	2 – 10 / 5 – 10****	2 – 10	2 – 10	2 – 5	4 – 20	4 – 20
Application temperature (°C)	5 – 25	1 – 25	5 – 25	5 – 25	5 – 25	5 – 25
Pot life (h)	up to 2	approx. 4	approx. 4	up to 1	up to 4	up to 4
Open time (min)	> 30	> 30	> 30	> 30	> 30	> 30
Adjustability time (min)	10	10	10	10	10	10
Floor access / grouting (h)	24	24	24	4	24	24
Full load - foot traffic (days)	approx. 3	approx. 3	approx. 3	24 h (1 day)	approx. 3	approx. 3
Full load - vehicle traffic (days)	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14
Full load with water in pool / tank (days)	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14
Floor heating (days)	approx. 21	approx. 21	approx. 21	approx. 21	approx. 21	approx. 21
Shelf life (months)	12	15 / 24 alubag	12	12	12	12
TYPE OF TILES						
Wall tiles	+	+	+	+	+	+
Terracotta	+	+	+	+	+	+
Porcelain tiles	+	+	+	+	+	+
Glazed tiles	+	+	+	+	+	+
Natural stone	+**	+*	+	+**	+**	+
Clinker bricks	+	+	+	+	+	+
Stoneware	+	+	+	+	+	+
Ceramic mosaic	+	+	+	+	+	+
Glass mosaic	+**	+**	+**	+**	+**	+**
Glass, coloured, printed tiles etc.	+***	+***	+***	+***	+***	+***
Concrete / cement tiles	+	+	+	+	+	+
Composite panels	+	+	+	+	+	+
Thermal and sound insulation panels	+	+	+	+	+	+

*if unsure about the application, please consult the ATLAS technical support
** carry out an application test
*** carry out an application test and check the instructions of the tile manufacturer
**** as waterproofing and adhesive in 1 work phase

ATLAS PLUS S2 HYDRO

Highly deformable adhesive S2
with waterproofing function

APPLICATION IN 1 WORK PHASE – step by step

1

1. Application of the adhesive layer

Wet the substrate with water. Rub a thin layer of adhesive into the substrate with the sharp edge of a trowel or a brush.

2

2. Installation of drip profiles, tapes and corners

Apply ATLAS Plus S2 Hydro with a notched trowel. Embed the tape and remove excess of adhesive. Install drip profiles in accordance with the instructions in the Technical Data Sheet for drip profiles.

3

3. Application of the waterproofing layer

Apply the adhesive with a notched trowel, size 10 and smoothen the surface.

4

4. Placing the tiles

Apply adhesive on a tile – first in a thin layer on entire bottom side of the tile, then with a 6 mm notched trowel. Place the tiles wet on wet.

2 in 1: adhesive and waterproofing in one go *

application in 1 work phase facilitates installation of terrace profiles and sealing tapes

no risk of water seeping under the tile

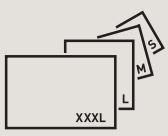
waterproof under pressure of 15 m water column

very high deformability

resistance to vibrations and thermal shock

bridging of cracks

up to 0.75 mm



for all tile sizes

even over 5m²

for all substrates

even for the critical ones: old ceramic tiles, composite panels, OSB, timber, plywood

* PN-EN 12004 and PN-EN 14891

ATLAS GEOFLEX

GEL TECHNOLOGY

NEW!

PRODUCT	ATLAS ULTRA GEOFLEX	ATLAS GEOFLEX	ATLAS GEOFLEX WHITE	ATLAS GEOFLEX EXPRESS
	Deformable gel adhesive S1	Highly flexible gel adhesive	Highly flexible gel adhesive	Rapid-set highly flexible gel adhesive
Reference document	PN-EN 12004+A1:2012			
Package size (kg)	5; 25	5; 25	5; 25	25
Type of packaging	foil / alubag (5 kg)	foil / alubag (5 kg)	foil / alubag (5 kg)	foil
TECHNICAL DATA				
Class	C2TE S1	C2TE	C2TE	C2FT
Adhesive strength (N/mm²)	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0 (≥ 0.5 already after 3 h)
Bed thickness (mm)	2 – 15	2 – 15	2 – 15	2 – 15
Application temperature (°C)	5 – 35	5 – 35	5 – 35	5 – 35
Pot life (h)	approx. 4	approx. 4	approx. 4	45 min. for 0.24 l/kg 75 min. for 0.30 l/kg
Open time (min)	> 30	> 30	> 30	> 20
Adjustability time (min)	20	20	20	10
Floor access / grouting (h)	12	12	12	2
Full load - foot traffic (days)	approx. 3	approx. 3	approx. 3	2 - 6 h
Full load - vehicle traffic (days)	approx. 14	approx. 14	approx. 14	24 h
Full load with water in pool / tank (days)	approx. 14	not applicable	not applicable	not applicable
Floor heating (days)	approx. 14	approx. 14	approx. 14	approx. 7
Shelf life (months)	12 / 24 (alubag)	12 / 24 (alubag)	12 / 24 (alubag)	12
TYPE OF TILES				
Wall tiles	+	+	+	+
Terracotta	+	+	+	+
Porcelain tiles	+	+	+	+
Glazed tiles	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX
Natural stone	+**	+**	+	+**
Clinker bricks	+	+	+	+
Stoneware	+	+	+	+
Ceramic mosaic	+	+	+	+
Glass mosaic	+**	+**	+***	+**
Glass, coloured, printed tiles etc.	+***	+***	+***	+***
Concrete / cement tiles	+	+	+	+
Composite panels	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX
Thermal and sound insulation panels	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX

*if unsure about the application, please consult the ATLAS technical support
** carry out an application test
*** carry out an application test and check the instructions of the tile manufacturer

ATLAS GEOFLEX EXPRESS

rapid-set highly flexible gel adhesive

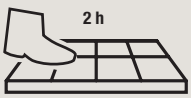
ATLAS GEOFLEX EXPRESS

ACCELERATES RENOVATION, REPAIR AND FINISHING WORKS:

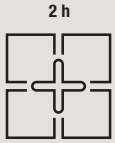
TILES CAN BE WALKED ON AND GROUTED JUST AFTER 2 HOURS

ATLAS Geoflex Express is an advanced adhesive with a very rapid increase in adhesion in the first 2 hours after application.

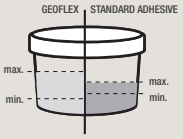
ATLAS Geoflex Express is designed on a basis of the silicate gel technology which ensures ability to bind a large amount of water. That makes work a lot easier, even under difficult conditions. As a spreadable adhesive it distributes perfectly, even under large-size tiles. Moreover, it has very high adhesion even on the most difficult substrates.



walk on after 2 hours

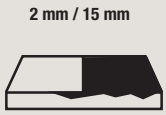


grouting after 2 h



wide range of mixing ratio
consistency adjusted to needs

zero slip
even with large tiles



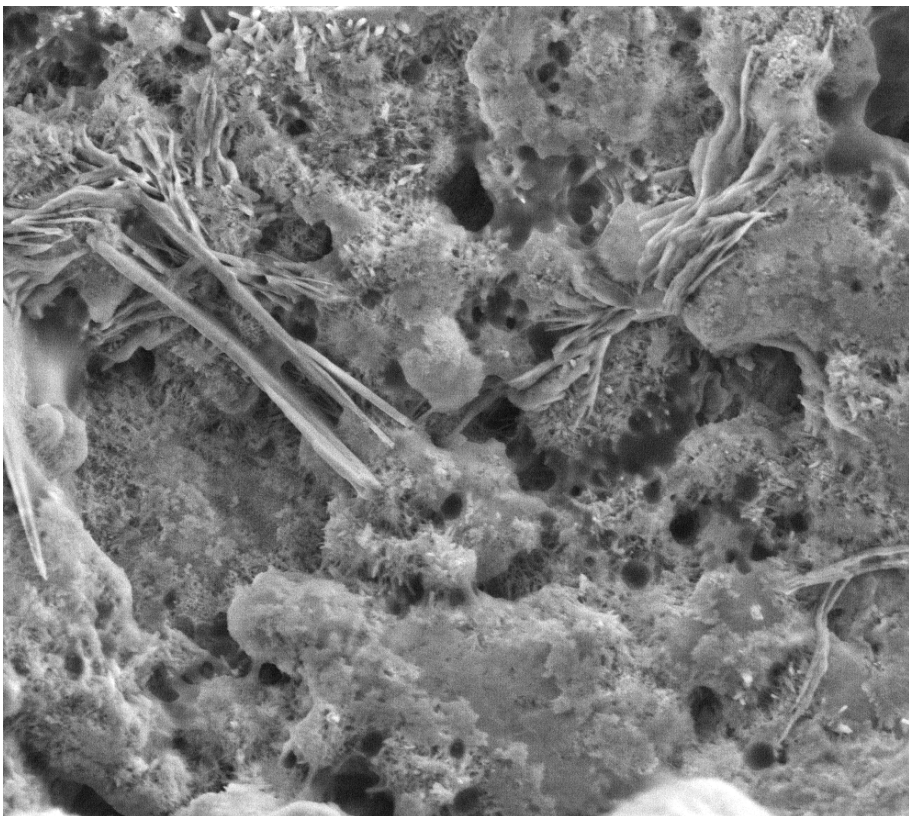
for floating and tiling
thin and thick layers

perfect spread
under the tile

tiles do not sink
into the adhesive

GEL TECHNOLOGY

Geoflex adhesives



SILICATE GEL TECHNOLOGY IS BASED ON THE USE OF MINERAL SORBENTS

These minerals easily bind water in their multilayer structure, creating a silicate gel with a foamy, light consistency.

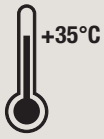
The adhesive **spreads perfectly**, strands do not break, and application is easy, regardless of the size of the trowel. Product perfectly sticks to the tools and does not slip on vertical surfaces. The adhesive is stable and tiles do not sink into the mortar.

That means, it can be used for laying tiles from top to bottem without support. As a spreadable adhesive it distributes perfectly under tiles, even under large tiles.

Secure application

very high adhesion

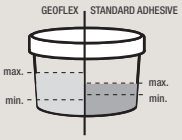
perfect spread under the tile



for application at high temperatures from +5°C up to +35°C

zero slip even with large tiles

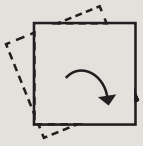
Convenient work



wide range of mixing ratio consistency adjusted to needs

ideal consistency easy to apply

grouting just after 12h / 2h*



long adjustability time

*ATLAS Geoflex Express

GEL TECHNOLOGY

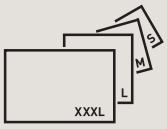
Wide range of mix ratio required for preparing the adhesive not only reduces the risk of over-watering, but also makes it possible to adapt consistency to the needs of relevant application as well as the preferences of user.

The water retained in the structure of the adhesive ensures **full hydration of the cement**, regardless of the type of the tiles and under almost any conditions (5 ÷ 35°C). Owing to the high water retention, gel adhesive ensures perfect adhesion to so-called critical substrates. These ranges and properties are unattainable for traditional adhesive cement mortars.

Versatility

2 mm – 15 mm

floating and tiling



for small, medium and large tiles

ADHESIVES FOR TILES

PRODUCT	ATLAS ELASTYK	ATLAS OK!	ATLAS ELASTIFIED ADHESIVE MORTAR	ATLAS ATUT
	Highly flexible adhesive	Elastified adhesive	General-use adhesive	Standard adhesive
Reference document	PN-EN 12004+A1:2012			
Package size (kg)	25	5; 25	5; 10; 25	25
Type of packaging	paper	foil	paper	paper
TECHNICAL DATA				
Class	C2TE	C1TE	C1TE	C1T
Fibre-reinforced	+	+		
Double-fibre technology		+		
Adhesive strength (N/mm²)	≥ 1.0	≥ 0.5	≥ 0.5	≥ 0.5
Bed thickness (mm)	2 – 10	2 – 10	2 – 10	2 – 10
Application temperature (°C)	5 – 25	5 – 30	5 – 25	5 – 25
Pot life (h)	up to 4	up to 4	up to 4	4
Open time (min)	> 30	> 30	> 30	> 20
Adjustability time (min)	10	10	10	10
Floor access / grouting (h)	24	24 / 12	24	24
Full load - foot traffic (days)	approx. 3	approx. 3	approx. 3	approx. 3
Full load - vehicle traffic (days)	approx. 14	not applicable	not applicable	not applicable
Floor heating (days)	approx. 14	not applicable	not applicable	not applicable
Shelf life (months)	12	12	12	12
TILE TYPES				
Wall tiles	+	+	+	+
Terracotta	+	+	+	+
Porcelain tiles	+	+	+	+
Natural stone	+**	+**	+**	+**
Clinker bricks	+	+	+	+
Stoneware	+			
Ceramic mosaic	+	+	+	+
Glass mosaic	+**			
Glass, coloured, printed tiles etc.	+***			
Concrete / cement tiles	+	+	+	

*if unsure about the application, please consult the ATLAS technical support
** carry out an application test
*** carry out an application test and check the instructions of the tile manufacturer

COVERAGE OF ADHESIVES FOR TILES

WALL APPLICATION

EXAMPLARY COVERAGE FOR 1 m²:

	Tile size (cm)	Notch size (mm)	C1 ADHESIVES Coverage (kg/m²)	C2 ADHESIVES Coverage (kg/m²)	C2S2 ADHESIVES Coverage (kg/m²)
mosaic tiles	2x2	4	1.7	1.3	1.5
standard tiles	10x10	4	1.7	1.3	1.5
	30x30	6	2.2	2.0	2.0
	30x60	8	2.9	2.5	2.6
	40x40	8	3.4	2.5	2.6
	50x50	8	2.9 OK! adhesive only	2.5	2.6
	60x40	8	2.9 OK! adhesive only	2.5	2.6
	60x60	10	not applicable	3.0	3.2
slab tiles	23x90	10	not applicable	3.0	2.6
	23x150	10	not applicable	3.0	2.6
	23x180	10	not applicable	3.0	2.6
slim / large format	100x100	combined method*	not applicable	approx. 4.5	4.6
	120x120	combined method*	not applicable	approx. 4.5	4.6
	120x240	combined method*	not applicable	approx. 4.5	4.6
quartz sinters for façades	300x100	combined method*	not applicable	approx. 4.5	4.6
	324x162	combined method*	not applicable	approx. 4.5	4.6

FLOOR APPLICATION

EXAMPLARY COVERAGE FOR 1 m²:

	Tile size (cm)	Notch size (mm)	C1 ADHESIVES Coverage (kg/m²)	C2 ADHESIVES Coverage (kg/m²)	C2S2 ADHESIVES Coverage (kg/m²)
mosaic tiles	2x2	4	1.7	1.3	1.5
standard tiles	10x10	6	2.2	2.0	2.0
	30x30	8	2.9	2.5	2.6
	30x60	10	2.9	3.0	3.2
	40x40	10	2.9	3.0	3.2
	50x50	10	3.4 OK! adhesive only	3.0	3.2
	60x40	10	3.4 OK! adhesive only	3.0	3.2
	60x60	12	not applicable	approx. 4.6	4.0
slab tiles	23x90	12 – trowel with semicircular notches	not applicable	approx. 4.6	4.6
	23x150		not applicable	approx. 4.6	4.6
	23x180		not applicable	approx. 4.6	4.6
slim / large format	100x100	12 – trowel with semicircular notches	not applicable	approx. 4.6	4.6
	120x120		not applicable	approx. 4.6	4.6
	120x240		not applicable	approx. 4.6	4.6

COVERAGE OF GROUTS

EXAMPLARY COVERAGE

SIZE OF TILE	WIDTH OF JOINT	DEPTH OF JOINT	COVERAGE
0.02 m / 0.02 m	0.002 m / 2.0 mm	0.002 m / 2.0 mm	approx. 0.65 kg/m²
0.10 m / 0.10 m	0.003 m / 3.0 mm	0.0075 m / 7.5 mm	approx. 0.75 kg/m²
0.30 m / 0.30 m	0.004 m / 4.0 mm	0.0075 m / 7.5 mm	approx. 0.35 kg/m²
0.30 m / 0.60 m	0.005 m / 5.0 mm	0.0075 m / 7.5 mm	approx. 0.30 kg/m²
0.50 m / 0.50 m	0.005 m / 5.0 mm	0.0075 m / 7.5 mm	approx. 0.25 kg/m²
0.60 m / 0.60 m	0.005 m / 5.0 mm	0.0075 m / 7.5 mm	approx. 0.20 kg/m²

Mortar coverage depends on the width and depth of the joints and the size of the tiles.

For a given surface it can be calculated with the formula:

$$z = (a1 + a2)/(a1 \cdot a2) \cdot S \cdot b \cdot c \cdot g$$

z – amount of grout required [kg]
a1 and **a2** – width and length of the tiles [m]
S – surface to be grouted [m²]
b – joint depth [m]
c – joint width [m]
g – density of the ready grout [kg/m³], data see Technical Data Sheets

GROUTS

NEW!

PRODUCT	ATLAS CERAMIC GROUT	ATLAS TIGHT GROUT	ATLAS DECORATIVE GROUT	ATLAS EPOXY GROUT
	Fine-aggregate cement grout	Fine-aggregate cement grout	Decorative grout	Two-component grout
Reference document	PN-EN 13888:2010			
Package size (kg)	2; 5	2; 5	2	2; 5
Packaging	alubag	alubag	alubag	bucket
GENERAL INFORMATION				
Class	CG 2 WA	CG 2 WA	CG 2 WA	RG
Number of colours	40	40	5	12
Mixture 1/2 + 1/2	-	-	-	+
Mixing water for 1 kg	0.24–0.27 l	0.28–0.29 l	0.22–0.24 l	not applicable
Joint width (mm)	1 – 20	1 – 7	1 – 15	1 – 10
Application temperature (°C)	5 – 35	5 – 25	5 – 35	5 – 25
Aluminum cement	not applicable	not applicable	+	not applicable
Portland cement	+	+	+	not applicable
Resistance to fungi		+	+	+
Water absorption	••••	••	••	•••••
Elasticity	+	+	+	-
Setting time (min)	5	5	5	3
Pot life	60 min	2 h	2 h	45 min
Initial cleaning	10-30 min	10-30 min	30 min	5 min
Final cleaning (h)	4-8	3	3	20 min
Foot traffic (h)	6-8	24	3	24
Full load (h)	24	24	24	24
Full chemical resistance	not applicable	not applicable	not applicable	7 days
Full mechanical resistance (h)	24	24	24	7 days
Final colour - obtained when the product is completely dry (days)	1	2 – 3	2 – 3	12 h
Absorption of water after 30 min (g)	≤ 2	≤ 2	≤ 2	not applicable
Absorption of water after 240 min (g)	≤ 5	≤ 5	≤ 5	≤ 0.1
Drinking water certificate of the PZH (Polish National Institute for Hygiene)		+	-	+
Radiation safety certificate	+	+	+	+

RESISTANCE TO MOISTURE

- ••••• maximum
- • low

ATLAS CERAMIC GROUT

fine-aggregate cement grout

ATLAS CERAMIC GROUT

OUTSTANDING PERFORMANCE IN COMPARISON TO THE AVAILABLE CEMENT GROUTS

Stain-resistant

Easily washable

Resistant to scrubbing

Durable and uniform colour

ATLAS CERAMIC GROUT contains polymer fibres for structural reinforcement and exceptional tightness. It can be scrubbed without damaging the grout. It is resistant to detergents and does not lose its properties even after repeated washing.

ATLAS CERAMIC GROUT is easy to apply, clean and profile. It is resistant to the efflorescence, cracks and micro-cracks, ensures uniform and durable colour.

ATLAS CERAMIC GROUT ensures convenient work for contractors and the satisfaction of the cladding users for many years.

40 colours

frost- and water-resistant

floor heating

interior and exterior use

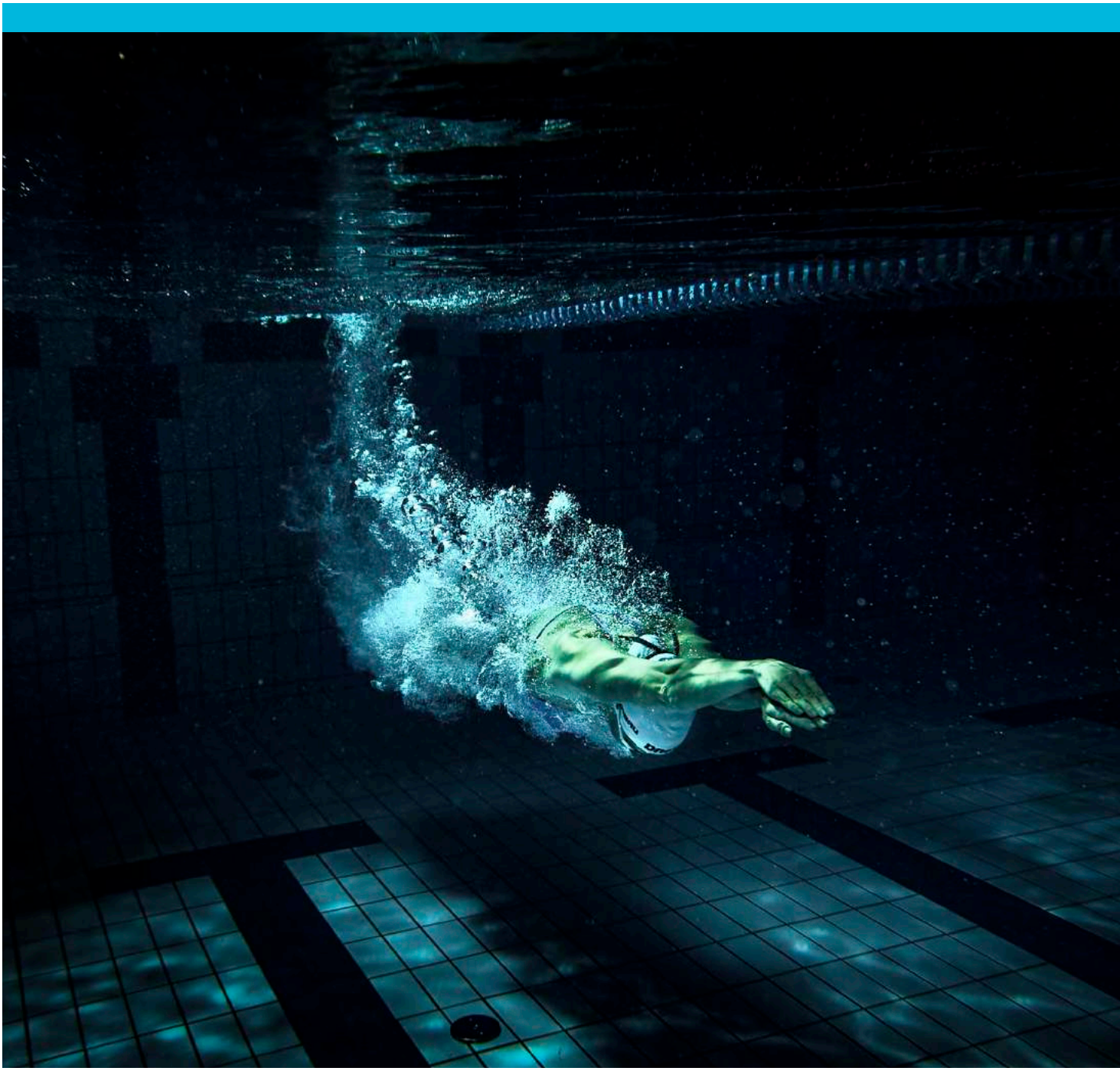
application temperature
from +5°C to +35°C

SILICONES

PRODUCT	ATLAS ELASTIC SANITARY SILICONE	ATLAS SILTON S
Reference document	PN-EN 15651-1:2013, PN-EN 15651-2:2013, PN-EN 15651-3:2013	
Package content	280 ml	280 ml
TECHNICAL SPECIFICATION		
Curing system	acetoxy	acetoxy
Ambient and substrate temperature during works (°C)	5 – 40	5 – 40
Temperature resistance after curing (°C)	from -50 °C to +180 °C	from -50 °C to +180 °C
Consumption (m / depth 6 mm / 280 ml)	from 1.8 (width 25 mm) to 11 (width 4 mm)	from 1.8 (width 25 mm) to 11 (width 4 mm)
For jointing between two different types of material		+
Max. joint depth (mm)	14	14
Joint width (mm)	4 – 25	4 – 25
Pot life (min)	15	15
Foot traffic (h)	3	3
Full load (h)	24	24
Colour durability	increased	standard
Myco-protection	+	+
Colour range	38 + colourless	38 + colourless

2

Primers, sealants and accessories



PRIMERS AND CONTACT COATS

NEW!







PRODUCT	ATLAS UNI-GRUNT ULTRA	ATLAS UNI-GRUNT	ATLAS UNI-GRUNT PLUS	ATLAS GRUNTOWNIK	ATLAS OPTIGRUNT	ATLAS GRUNTOPLAST	ATLAS ULTRAGRUNT
	Deeply penetrating priming emulsion	Multi-surface primer	Fine-particled deep penetrating primer	Primer for paints and plasters	Universal priming emulsion	Contact coat for difficult substrates	Quick-drying primer for critical substrates
Package size (kg)	5	1; 5; 10	5	5	5	5	5; 15
TECHNICAL SPECIFICATION							
Density (g/cm³)	1.0	1.0	1.0	1.0	1.0	1.5	1.5
Application tool	roller/brush/sprayer	roller/brush/sprayer	roller/brush/sprayer	roller/brush	roller/brush	roller/brush	roller/brush
Application and substrate temperature (°C)	5 – 30	5 – 30	5 – 35	5 – 25	5 – 25	5 – 30	5 – 35
Consumption (kg/m²)	0.10 (screeds) 0.04 (renders) 0.03 (substrates for painting)	0.05 – 0.20	0.05 – 0.20	0.05 – 0.20	0.05 – 0.20	0.3	0.3
Control pigment	yes	no					
Dilution	1:3 (screeds) 1:6 (renders) 1:8 (substrates for painting)	ready to use 1:1 1:3	ready to use				
Drying time:	15 minutes / 2 hours*	15 minutes / 2 hours*	2 h	2 h	2 h	24 h	4-/24 h
TYPE OF SURFACE							
Solid and hollow brick, aerated concrete, silicate blocks	+	+			+	+	+
Cement, cement-lime and gypsum plasters, plasterboards	+	+		+	+	+	+
Old cement screeds	+	+	+			+	+
Anhydrite screeds	+	+	+			+	+
Concrete screeds	+	+	+			+**	+
Concrete formwork						+**	+
OSB						+**	+
Terrazzo						+**	+
Old ceramic tiles						+**	+
Plastic substrates							+
Steel substrates							+
Stable plastic flooring							+
Stable timber floors							+
Dados coated with solvent-based paints							+

* for the self-levelling screeds ATLAS SMS 15 or SMS 30
** ATLAS ULTRAGRUNT

ATLAS UNI-GRUNT ULTRA

Deeply penetrating priming emulsion

Multi-purpose

- adjustable dilution rate depending on the type of substrate
- for screeds, finishing coats, plasters, paints and adhesives
- for walls, floors and ceilings
- for interior and exterior use

Ultra-high yield

one package of ATLAS UNI-GRUNT ULTRA is sufficient for priming:

- 50 m2 of a floor underneath self-levelling screeds (dilution 1:3)
- 115 m2 of plaster underneath top finish or ceramic tiles (dilution 1:6)
- 150 m2 of substrate for painting (dilution 1:8)

Control pigment

- allows to control the progress of the work, both when the primer is still wet and when it dries out
- pigment does not impair the coating with paints

Quick-drying

- 15 min – under plasters, hollow silicate bricks, aerated concrete blocks
- 2 h – under screeds and floors

Strengthens the substrate

- penetrates the substrate, binds residual dust particles
- reduces absorbency

guarantees safety

wide range of use

highest content of polymeric dispersion

control pigment

effective substrate saturation

low consumption
up to 150m² per 5 kg unit

WATERPROOFING AND LIQUID FOILS


PRODUCT	ATLAS WODER DUO EXPRESS	ATLAS WODER DUO	ATLAS WODER E	ATLAS WODER W	ATLAS WODER S
	Rapid set two-component waterproofing	Elastic two-component waterproofing	Quick-drying liquid foil	Liquid foil	Watertight cement mortar
Reference document	PN-EN 14891:2012	ITB-KOT-2018/0383 ed. 1 PN-EN 14891:2012	ITB-KOT-2018/0491 ed.1	ITB-KOT-2018/0492 ed. 1	ITB-KOT-2018/0490 ed. 1
Package size (kg)	24	16; 32	2; 5; 15	4,5; 10	25
TECHNICAL DATA					
Min./max. coat thickness (mm)	2/2	2/3	1/3	1/3	1/3
Open time (min)	30	30	30	30	30
Pot life (min)	45	60	whole shelf-life period		120
Application of the second coat (h)	all works in 1 cycle	3	1	3	3
Application of finishing coats (h)	3	12	4	24	24
Resistance to pressurised water (m of water column)	15	70	apply ATLAS WODER DUO		50
Resistance to water with negative pressure (m of water column)	not resistant	50	not resistant	not resistant	not resistant
Loading with pressurised water (days)	not applicable	7	not resistant	not resistant	7
Resistance to water treatment agents, including chlorine	not resistant	resistant	not resistant	not resistant	not resistant
Chemical resistance – environment category XA2 (coating resistant to municipal sewage, slurry and aggressive groundwater	not resistant	resistant	not resistant	not resistant	not resistant
Crack bridging up to min. (mm)	0.75	1.0	0.8	-	-
AREAS OF APPLICATION					
Interior	+	+	+	+	+
Exterior	+	+	+		+
APPLICATION CONDITIONS					
Foundations, basement walls	+	+			+
Underfloor/wall heating		+	+	+	+
Water tanks, pools		+			+
Terraces, balconies	+	+	+*		+
TYPE OF SUBSTRATE					
Cement and concrete screeds, lime-cement plaster, concrete, aerated concrete, silicate	+	+	+	+	+
Anhydrite screeds, gypsum renders			+	+	
Drywall and OSB boards		+	+	+	
Galvanised metal sheet		+	+		
TYPE OF WATERPROOFING					
Light	+	+	+	+	+
Medium	+	+	+		+
Heavy		+			+

*ATLAS WODER E – for balconies only

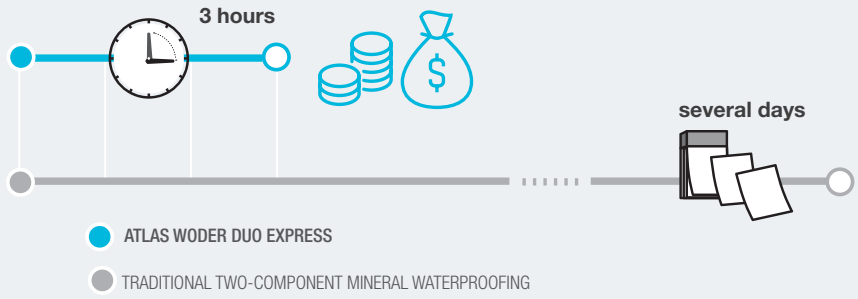
CAUTION!

ATLAS WODER DUO can be used as surface protection for concrete and reinforced concrete structures

ATLAS WODER DUO EXPRESS

Rapid set two-component waterproofing

TECHNOLOGICAL BREAK BETWEEN WATERPROOFING AND TILING



STEP BY STEP

1. Prepare the substrate* – it should be strong, stable and clean

Prepare tape and corners. Mix the product – remember, it has 45 min pot life.
Before product application, moisten the substrate with water – it should be matt-wet.

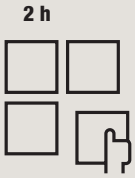
2.
Embed the tapes and corners HYDROBAND 3G in WODER DUO EXPRESS.

3.
Apply a thin layer of WODER DUO EXPRESS and rub it with a steel trowel into the substrate.

4.
Apply a second layer and distribute it with a 6 mm notched trowel "wet on wet". Smoothen the mass with the edge of a trowel.

*** detailed information on substrate preparation is given in technical documentation**

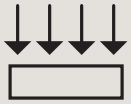
application in one phase
"wet-on-wet"-technique



tiling just after 3 hours

quickly rainproof
just after 2 hours

secure application at low temperatures (from + 3°C)



4 x higher adhesion after 24 hours
(in comparison to standard waterproofing)

frost-resistant

high elasticity
briges cracks up to 0.75 mm

UV-resistant

BITUMEN MASS, BITUMINOUS MEMBRANE

ATLAS SMB SELF-ADHESIVE BITUMINOUS MEMBRANE

- vapour barrier S_d= 488 m
- waterproofing for terraces, balconies, foundations, basements, underground garages, halls, warehouses
- excellent bonding
- easy and quick installation
- in contrast to torch-on roofing felt, no torch required
- retains its flexibility properties even at -20°C
- SBS-modified
- types of substrates: concrete, cement screeds, galvanised metal sheet, extruded polystyrene panels, styrofoam

ATLAS GENERAL-PURPOSE BITUMEN MASS
BITUMINOUS MASS FOR FOUNDATIONS

- for priming of mineral substrates prior to the actual waterproofing, e.g. for the ATLAS SMB bituminous membrane
- for lightweight damp proofing e.g. of foundations
- solvent-free
- application with brush

COVERAGE OF WATERPROOFING AND LIQUID FOILS

PRODUCT	TYPE OF WATERPROOFING	COAT THICKNESS (mm)	COVERAGE (kg/m2)
ATLAS WODER W	light	1.0	1.0
ATLAS WODER E	light	1.0	1.0
	medium	2.0	2.0
ATLAS WODER S	light	1.5	2.0
	medium	2.0	3.0
	heavy	3.0	4.5
ATLAS WODER DUO	light	2.0	3.0
	medium	2.5	3.7
	heavy	3.0	4.5
ATLAS WODER DUO EXPRESS	light, medium	2.0	2.4

ACCESSORIES

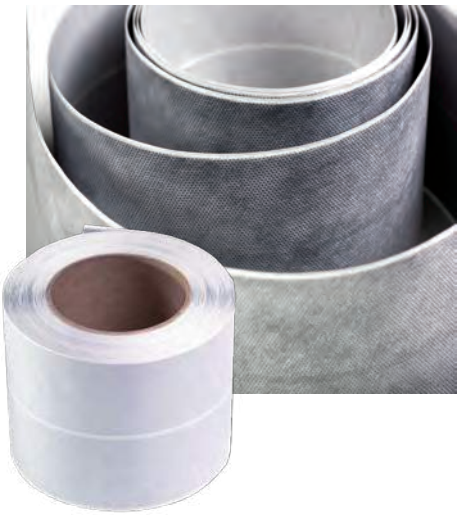
for waterproofing

ATLAS HYDROBAND 3G

- high tensile strength
- high resistance to aggressive environments
- UV-resistant
- resistant to pressurized water
- for balconies and terraces

SEALING TAPES, CORNERS AND RINGS

- waterproofing of corners and expansion joints
- highly elastic
- for bathrooms, kitchens and cellars



ATLAS BUTYL TAPE

- self-adhesive sealing tape
- high tensile strength
- self-adhesive layer with an easily removable protection
- perfectly sticks to ATLAS WODER damp proofing, terrace profiles and window frames made of PVC, aluminium or timber

ALUMNIUM DRIP PROFILES

for balconies and terraces

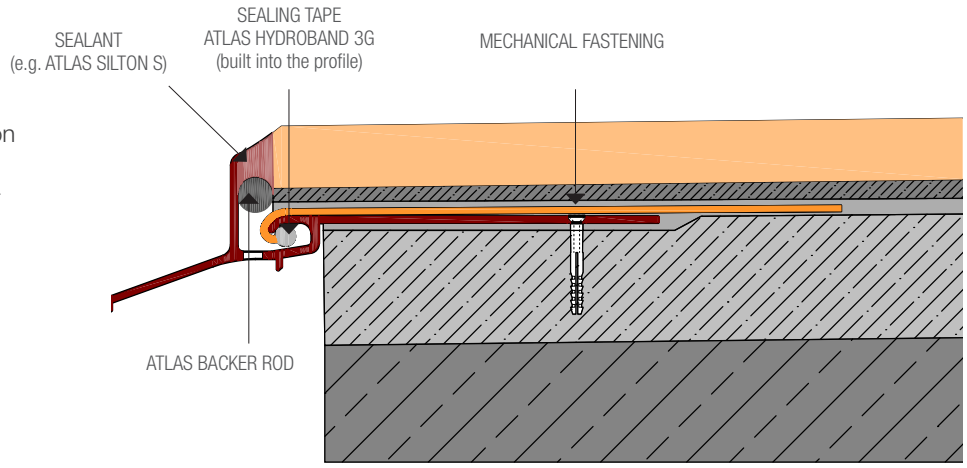
ATLAS DRIP PROFILES HAVE A COMPLETE PROTECTION AGAINST HARMFUL ENVIRONMENTAL AND WEATHER CONDITIONS

COMPLETE PROTECTION AGAINST CORROSION

1. pickling of the aluminium profile
2. application of a chromium passivation layer
3. application of a top-quality polyester powder coating, cured at 190°C

GUARANTEED RESISTANCE to corrosion caused by:

– alkaline environment (high pH of the mortars and coatings in which they are embedded)
– adverse weather conditions (thermal stress, precipitations)
– UV radiation



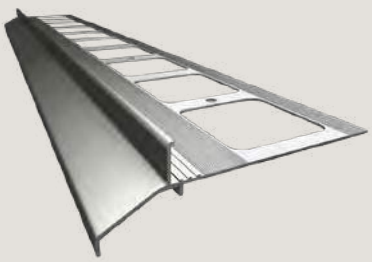
BALCONY EDGE FINISHED WITH ATLAS 102 PROFILE

ATLAS 102

Profile recommended for balcony and terrace drainage with embedded ATLAS HYDROBAND 3G tape:
– ensures easy and tight installation of the sealing tape ATLAS HYDROBAND 3G and its connection with the waterproofing under the tiles
– has a shaped threshold and an integrated backer rod which ensures free expansion and contraction of cladding.

ATLAS 50

Standard profile recommended for balcony drainage



ATLAS 100

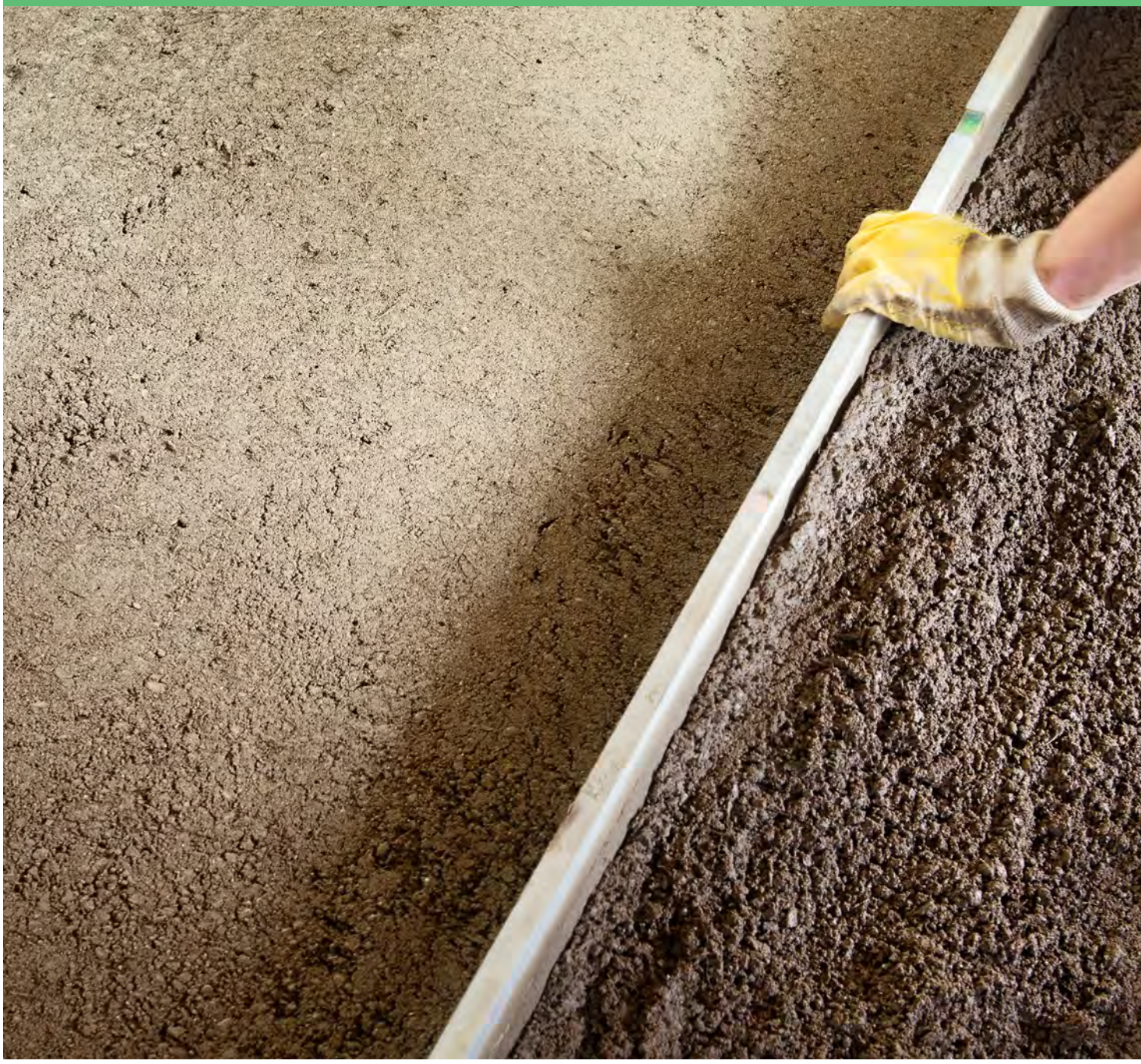
Profile recommended for balcony and terrace drainage

ATLAS 150

Profile recommended for balcony and terrace drainage with the optional installation of gutters

3

Screeds and floors



TECHNOLOGY FOR APPLICATION OF SCREEDS AND FLOORS

SUBSTRATE PREPARATION

Bonded screeds

Substrate must be stable, clean and have sufficient bearing capacity.

Cavities or defects in the substrate must be repaired, e.g. with mortar ATLAS ZW 330, ATLAS TEN-10 OR ATLAS MONT-ER T-5, in accordance with the instructions of Technical Data Sheets.

Before application of pourable screeds (e.g. ATLAS SMS 30, ATLAS SAM 500) repaired, dry and dust-free substrate must be carefully primed:
- substrates with increased absorbency: ATLAS UNI-GRUNT, ATLAS UNI-GRUNT PLUS or ATLAS UNI-GRUNT ULTRA,
- non-absorbent substrates: ATLAS ULTRAGRUNT.

If anhydrite screeds are poured onto cement substrates, the priming must be carried out very carefully (in two layers), because otherwise it can lead to delamination between cement substrate and anhydrite screed and blistering of the screed.

In case of traditional cement floors (e.g. ATLAS POSTAR 20, ATLAS POSTAR 80), surface must be coated with a contact coat (e.g. ATLAS ADHER S) by firmly rubbing it into the substrate, before the actual mortar layer is applied.
Apply screed with the wet-on-wet method.

Screeds on a separation layer and floating screeds

Install a separation layer made of plastic foil, paraffin paper etc.

The separation layer should be laid tightly, without creases, with no mortar penetrating underneath and partially up the walls (over the expansion joint strips), at least up to the planned level of the screed.

For anhydrite screeds, due to the spreadability of material, planned work sections must be separated from each other and sealed.

TIPS FOR APPLICATION OF TRADITIONAL FLOORS

Smooth surface of the floor
In order to obtain even screed or floor, we recommend **to use screed rails.** The rails position should correspond to the planned thickness of floor or screed and the thickness should be greater than the minimum required for the given structural system (bonded screed, separation layer, floating screed).

In order **to thicken the material and to distribute it more precisely,** vibrate it with a screeding level or tamp it with a trowel until water appears on the top (so-called sweating effect).

SWEATING EFFECT

MAINTENANCE OF CEMENT FLOORS OR SCREEDS

Freshly laid screeds or floors must be protected from:
- drying too quickly,
- direct sunlight,
- low air humidity,
- draughts.

In order to ensure favourable setting conditions for the mortar, sprinkle the surface with water or cover it with foil. Appropriate care is necessary to obtain optimal product parameters.
The drying time of the screed or floor depends on the coat thickness, temperature and humidity.

Screed can serve as a final floor, if it has the required abrasion resistance. Abrasion resistance class must be chosen depending on the conditions of use.

APPLICATION OF SELF-LEVELLING ANHYDRYTE AND CEMENT SCREEDS

Self-levelling floor screeds can be applied
– manually
– mechanically.

Comparison of the manual and mechanical method* of application of ATLAS self-levelling screeds **within 1 hour:**

	Layer thickness (mm)	Coverage (kg/m2)	Surface covered for manual application (m^2)	Surface covered for mechanical application (m^2)
SAM 100	**3.0**	**60**	**10**	**70**
SAM 200	5.0	100	6	42
SAM 500	5.0	90	7	47
SMS 15	1.5	25	24	168
SMS 30	3.0	50	12	84
POSTAR 100	5.0	100	6	42

Adjustment of a plastering unit for mechanical application

For mechanical application of self-levelling screeds you can use typical plastering units used for application of gypsum plasters. For application of a thin coat of self-levelling masses ATLAS SAM 100, ATLAS SMS 15 or ATLAS SMS 30 on max. 100 m2, it is not necessary to retool the machine – a standard pump and a smaller hose diameter will ensure sufficient capacity. You only have to:
– disconnect the compressor and render spray gun – the material is compressed with the pump and poured directly through the hose onto the floor.

In all other cases as well as for laying anhydrite screeds with a thickness of ≥ 5 cm, the machine has to be modified as follows:
– exchange the render pump with a capacity of 25 litres/min for a pump with a capacity of 35 litres,
– replace the hose with a 35 mm diameter hose.

The larger pump and thicker hose will ensure an optimal capacity of the machine.

Determination of the correct consistency

1. pour the ready mixture onto an even and non-absorbent substrate (e.g. construction foil) from a 1l container**
2. measure the diameter of mortar puddle
3. the self-levelling screed has suitable consistency, when the puddle of mortar reaches the required diameter

Type of screed	Diameter of 1 litre of mortar (cm)
Anhydrite screeds	45-50
Cement screeds	50-55

Surface levelling and deaerating of the screed are achieved with:

– spiked rollers – for thin layers and small screed surfaces
– dapple bars made of light materials (e.g. copper or aluminium tubes).

*using a pump with a capacity of 35 litres/min.
**container made of a PVC pipe with length calculated so that the container has a capacity of 1 l

TECHNOLOGY FOR LAYING SCREEDS AND FLOORS

EXPANSION JOINTS

Screeds must be separated from the walls and other elements (e.g. pillars) with an expansion joint made of elastic material, such as polystyrene, polyurethane foam or ready ATLAS EXPANSION JOINT PROFILES.

In case of cement screeds:
- the size of the work sections inside rooms should not exceed 36 m^2, and the sides of the sections should not be longer than 6 m,
- outdoors, sections should be determined individually
- the side ratio should not exceed 2:1

In case of anhydrite screeds:
- expansion joints are necessary, when the floor surface of the room exceeds 50 m^2 and the diagonal is longer than 10 m,
- the side ratio should not exceed 2:1

Expansions joints have to be made also at thresholds and around load-bearing pillars. Existing structural expansion joints should be transferred onto the screed or floor layer.
NOTE: For bonded screeds, the expansion joints in the substrate must always be transferred onto the screed.

FINISHING WORK

The time when finishing works can be started depends on the type of screed, its humidity as well as the ambient conditions. Flooring works can start quicker on fast-setting products such as ATLAS SAM 500, ATLAS SMS 15, ATLAS SMS 30, ATLAS POSTAR 20 and ATLAS POSTAR 80. Caution! Always check the moisture content of screed right before application of the following coat.

The substrate moisture can be measured with high-quality calibrated electronic or carbide meters.

APPROXIMATE TIME, AFTER WHICH FINISHING WORKS CAN BE STARTED ON BONDED SCREEDS (APPLIED AT 20°C AND 55% HUMIDITY):

Product	Screed thickness (cm)	TIME (DAYS)			
		Type of floor flooring			
		Ceramic tiles *	Parquet **	Carpet **	Laminate flooring **
ATLAS SAM 100	0.5-3.0	7	21	14	7
ATLAS SAM 200	2.5-4.0	21		21	14
	4.0-6.0	21		21	21
ATLAS SAM 500	2.0-4.0	14		21	14
	4.0-6.0	21		21	21
ATLAS SMS 15	0.1-0.5	8 h	1	12 h	12 h
	0.5-1.5	8 h	1	1	1
ATLAS SMS 30	0.3-0.5	18 h	1	1	1
	0.5-1.0	2	4	4	4
	1.0-2.0	3	5	5	5
	2.0-3.0	4	6	6	6
ATLAS POSTAR 20	1.0-3.0	2		14	14
	3.0-5.0	2		14	14
ATLAS POSTAR 60	1.0-4.0	1	3	3	3
	4.0-7.0	2	14	14	14
ATLAS POSTAR 80	1.0-3.0	1	7	7	4
	3.0-5.0	1	7	7	7

* required substrate moisture content – 4% ** required substrate moisture content – 2%

SCREED MOISTURE CHECK

SELF-LEVELLING SCREEDS

PRODUCT	ATLAS SAM 100	ATLAS SAM 200	ATLAS SAM 500	ATLAS SMS 15	ATLAS SMS 30
	Rapid-set, self-levelling floor screed	Self-levelling screed	Rapid-set, self-levelling floor screed	Rapid-set, self-levelling compound	Rapid-set, self-levelling floor screed
Type of screed	ANHYDRITE			CEMENT	
Reference document	PN-EN 13813:2003				
Classification	CA-C35-F6	CA-C16-F5	CA-C20-F4	CT-C25-F7	CT-C30-F7
Package size	25 kg				
Type of packaging	foil	foil	paper bag	foil	foil
TECHNICAL DATA					
Self-levelling	+	+	+	+	+
Layer thickness (mm)	5 – 30	25 – 60	20 – 60	1 – 15	3 – 30
Mixing ratio (water/dry mix) (l/25 kg)	5.0 – 5.5	4.25 – 4.75	5.0 – 5.25	5.0 – 5.25	5.0 – 5.5
Consumption (kg/1 cm thick/m^2)	20	20	18	16.6	16.5
Compressive strength (N/mm^2)	≥ 35	≥16	≥ 20	≥ 25	≥ 30
Flexural strength (N/mm^2)	≥ 6	≥ 5	≥ 4	≥ 7	≥ 7
Linear shrinkage (%)	< 0.03	< 0.03	< 0.05	< 0.06	< 0.06
Use of the screed – foot traffic (h)	6	48	6	4	4
Placing the tiles	14 – 21 days	21 – 28 days	21 – 28 days	8 h*	18 h*
Installation of parquet	21 – 28 days			24 h*	24 h*
Laying panels or carpet	21 – 28 days	21 – 28 days	21 – 28 days	12 h*	24 h*
Turn on floor heating (days)	7	28	7		
Manual application	+	+	+	+	+
Mechanical application (mixing pump)	+	+	+	+	+
TYPE OF SCREED					
Bonded	+	+	+	+	+
On a separation layer		+	+		
Floating		+	+		
With floor heating		+	+		
FUNCTION IN THE FLOOR STRUCTURE					
Filling compound	+			+	+
AREAS OF APPLICATION					
Interior – dry	+	+	+	+	+
Exterior – wet				+	+

* The time depending on the thickness of the screeds is given in the table on page 30

TRADITIONAL FLOORS AND SCREEDS

PRODUCT	ATLAS POSTAR 10	ATLAS POSTAR 20	ATLAS POSTAR 40	ATLAS POSTAR 60	ATLAS POSTAR 80	ATLAS POSTAR 100
	Traditional cement floor	Quick-drying cement screed	Cement floor	Express cement-based floor	Fast-setting cement floor	Self-levelling cement floor
Reference document	PN-EN 13813:2003					
	AT-15-9621/2016	AT-15-8432/2016	AT-15-6972/2016	PN-EN 13813:2003	AT-15-8462/2016	AT-15-6971/2016
Classification	CT-C25-F5-A15	CT-C20-F4	CT-C30-F6-A22	CT-C30-F5-A12	CT-C40-F7-A12	CT-C50-F7-A15
Package size	25 kg					
Type of packaging	paper bag					
TECHNICAL DATA						
Self-levelling						+
Layer thickness (mm)	10 – 100	10 – 80	10 – 80	10 – 100	10 – 80	10 – 80
Mixing ratio (water/dry mix) (l/25 kg)	2.25 – 3.0	1.75 – 2.75	2.0 – 3.75	1.75 – 2.75	2.0	3.25 – 3.75
Consumption (kg/1 cm thick/m²)	20	20	20	20	20	20
Compressive strength (N/mm²)	≥ 25	≥ 20	≥ 30	≥ 30	≥ 40	≥ 50
Flexural strength (N/mm²)	≥ 5	≥ 4	≥ 6	≥ 5	≥ 7	≥ 7
Abrasion resistance acc. to Böhme	A15		A22	A12	A12	A15
Linear shrinkage (%)	< 0.06	< 0.06	< 0.08	< 0.06	< 0.06	< 0.06
Use of the screed – foot traffic (h)	24	24	24	6	3	24
Placing the tiles (days)	14	2	21 – 28	1	1	21 – 28
Installation of parquet (days)	21 – 28		21 – 28	3	7	21
Laying panels or carpet (days)	21 – 28	14	21 – 28	3	7	21 – 28
Application of an epoxy coat (days)	21 – 28		21 – 28		7	21 – 28
Turn on floor heating (days)	7	7	7	7	7	7
Manual application	+	+	+	+	+	+
Mechanical application (mixing pump)						+
TYPE OF SCREED						
Bonded	+	+	+	+	+	+
On a separation layer	+	+	+	+	+	+
Floating	+	+	+	+	+	+
With floor heating	+	+	+	+	+	+
FUNCTION IN THE FLOOR STRUCTURE						
Final floor	+		+	+	+	+
AREAS OF APPLICATION						
Interior – dry	+	+	+	+	+	+
Interior – wet	+	+	+	+	+	+
Exterior	+	+	+		+	+

ATLAS POSTAR 60

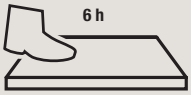
Express cement-based floor

EXPRESS FLOOR 10-100 mm, RECOMMENDED FOR QUICK REPAIRS AND REPLACEMENT OF FLOORS

FOR SCREEDS:
- bonded to substrate
- on separation layer
- on underfloor heating systems (does not require plasticizers, transfers heat well).

Ideal for repairs and shaping slopes, for pressure layers on balconies and terraces, for levelling existing stairs and reprofiling driveway gradients.

Accelerates finishing work with floor coverings made of stone, timber, cork, engineered timber, carpet or PVC. Can serve as flooring.

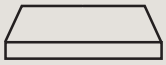


foot traffic after 6 h

fixing of floorboards, panels and parquet just after 3 days

high compressive strength

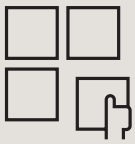
levelling existing stairs



ensures a smooth surface

limits the risk of cracking

on underfloor heating systems

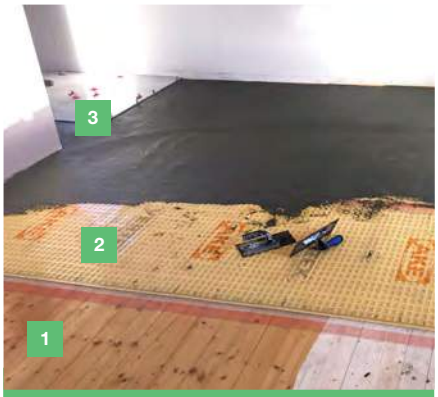


tiling just after 24 hours

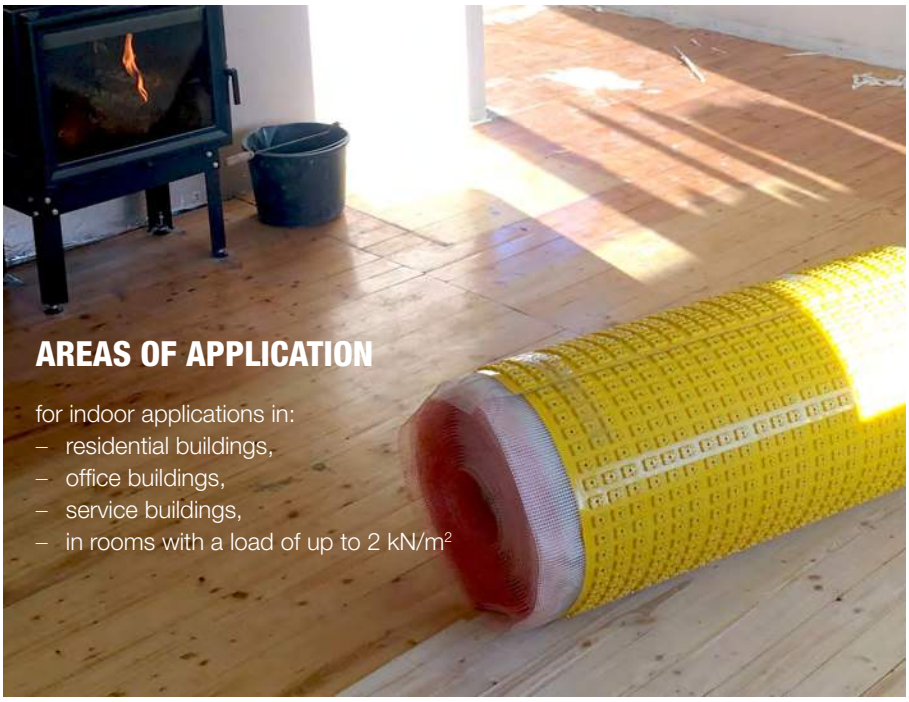
UNCOUPLING MATS

UNCOUPLING MAT ATLAS T-100 MAKES IT POSSIBLE:

- to shift expansion joints on a floor to adjust them to the layout and size of the tiles,
- to install ceramic tiles and natural stone on substrates covered with cement paste or residues of old adhesives (e.g. after removing old tiles or PVC, parquet etc.)
- to lay homogeneous flooring on surfaces:
- with and without floor heating (with different thermal stress)
- with old flooring of different types and absorbency, without the necessity to completely or partially replace them.
- to accelerate renovation works by reducing the “wet” processes and the setting of the screeds



1. Old floor
2. Uncoupling mat ATLAS T-100
3. New floor covering



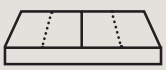
AREAS OF APPLICATION

for indoor applications in:
- residential buildings,
- office buildings,
- service buildings,
- in rooms with a load of up to 2 kN/m^2

PERFORATION OF THE MAT:

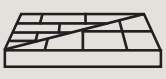
- stops the mat from slipping out of place during the installation
- allows for distribution of warmth from the heating area (increase of the surface of warm tiles by a area of up to 70-80 cm).

COMPENSATION OF DEFORMATIONS



for transferring of expansion joints

areas with different thermal loads



substrates with different absorbency

4

Construction mortars

MASONRY MORTARS

PRODUCT		ATLAS MASONRY MORTAR	ATLAS MASONRY MORTAR M10	ATLAS KB-15	ATLAS MASONRY MORTAR FOR CLINKER	ATLAS SILMUR
		Traditional masonry mortar	Traditional masonry mortar	Masonry mortar for aerated concrete	Masonry mortar with trass	Masonry mortars for silicate elements
Reference document		PN-EN 998-2:2016-12				
Package size		25 kg				
Type of packaging		paper bag				
TECHNICAL DATA						
Type of mortar*		G	G	T	G	T
Mixing ratio (water/dry mix) (l/25kg)		3 – 3.5	3 – 3.5	5.25 – 6.0	2.5 – 30 bricklaying 2.0 grouting	5.0 – 6.0
Joint thickness (mm)		6 – 40	6 – 40	2 – 10	6 – 40	2 – 10
Compressive strength (N/mm²)		≥ 5.0	≥ 10.0	≥ 5.0	≥ 5.0	≥ 5,0 / ≥7,5 / ≥10,0 / ≥15,0
Pot life (h)		4	4	4	3	4
Colour		grey	grey	grey	beige, dark brown, grey, graphite grey, anthracite	grey or white
Preparation and application temperature (°C)		5 – 30	5 – 30	5 – 30	5 – 30	5 – 30 0 – 30**
COVERAGE OF A 25 KG BAG/JOINT THICKNESS						
WALL THICKNESS	12 cm (1/2-brick)	0.63 m² (1 cm)	0.63 m² (1 cm)	5. 2 m² (3 mm)	0.73 m² (1 cm)	12.5 m² (2 mm)
	18 cm			4. 2 m² (3 mm)	0.62 m² (1.2 cm)	8.3 m² (2 mm)
	24 cm (1 brick)	0.25 m² (1 cm)	0.25 m² (1 cm)	3. 1 m² (3 mm)	not applicable	6.2 m² (2 mm)
	30 cm			2. 5 m² (3 mm)	not applicable	5.0 m² (2 mm)
	36 cm			2.1 m² (3 mm)	not applicable	4.2 m² (2 mm)
TYPE OF WALL MATERIAL						
Ceramic brick		+	+		+	
Clinker					+	
Sand-lime brick		+	+			+
Concrete		+	+			
Aerated concrete		+	+	+		+***
RECOMMENDED USE						
Thick joints		+	+		+	
Thin joints				+		+
Grouting					+	

* classification of masonry mortars acc. to standards – see p. 81

** applies to M15 mortars

*** does not apply to M15 mortars

PLASTERING MORTARS

PRODUCT	ATLAS PLASTERING MIX	ATLAS LIGHT MACHINE-APPLIED PLASTER	ATLAS REKORD
	Traditional cement plaster cat.III	Lime-cement plaster cat. III	White cement top finish
Reference document	PN-EN 998-1:2016-12		
Type of mortar*	GP	LW	OC
Package size	25 kg	30 kg	25 kg
Type of packaging	paper bag		
TECHNICAL SPECIFICATION			
Mixing ratio - volume of water per packaging	3.25 – 4.0 l	6.0 – 7.8 l	7.0 – 8.0 l
Coat thickness (mm)	6 – 30	5 – 30	1 – 10
Pot life (h)	4	2	2
Coverage (kg/1 m^2 /1 cm thickness)	20	14	15
Mortar function	render	render	top finish
Colour	grey	grey	white
APPLICATION METHOD			
Manual	+		+
Mechanical	+**	+	
AREAS OF APPLICATION			
Interior	+	+	+
Exterior	+		+***
TYPE OF SUBSTRATE			
Ceramic bricks	+	+	
Aerated concrete	+	+	+
Silicate blocks	+	+	+
Concrete	+	+	+

* classification of plastering mortars acc. to standard – see p. 81

** plastering mortar for mechanical application is manufactured on demand in packaging marked with the letter M

*** only in a multi-layer rendering system, e.g. to achieve a uniform façade texture

SYSTEM FOR STRUCTURAL REPAIRS OF CONCRETE AND FERROCONCRETE

ATLAS Betoner S

PRODUCT:	ATLAS ADHER S	ATLAS FILER S	ATLAS ENDER S
Reference document	PN-EN 1504-3:2006 PN-EN 1504-7:2007	PN-EN 1504-3:2006 – fulfils the requirements for class R3	
Function of the mortar	Contact coat	Repair mortar	Finishing layer
Package size	25 kg		
Type of packaging	paper bag		
TECHNICAL DATA			
Mixing ratio (water/dry mix) (l/25 kg)	8.0 – 8.75	3.5 – 3.75	4.0 – 4.5
Consumption of dry mix in kg/m^2	1,2	20/per 10 mm thickness	20/per 10 mm thickness
Layer thickness (mm)	1,0	10-50	3-10
Pot life (min)	120	60	60
Open time (min)	15	10	15
Preparation and application temperature (°C)	5 – 25	5 – 25	5 – 25
Technological break between phases of work	N/A	Right after application of ATLAS ADHER S contact coat	24 hours after application of the ATLAS FILER S levelling layer
Adhesion to concrete (N/mm^2)	≥ 1.5	≥ 1.5	≥ 1.5
Foot traffic / use (h)	N/A	24	24
Full load (days)	N/A	7	14
Use	Protects concrete reinforcement against corrosion	Concrete and ferroconcrete structures: ceilings, posts, balconies, cantilevers, stairs, pillars, binding joists, construction beams	
Component of the system ATLAS BETONER S acc. to standard PN-EN 1504-7	1 2 3 system PCC	1 2 3 system PCC	1 2 3 system PCC

ATLAS BETONER S

system for structural repairs

STEP BY STEP

1a. Substrate preparation.

First step is to remove damaged cladding, plaster, insulation layers. The prepared substrate is concrete without loose particles, dust, oil stains or other contaminations. Clean reinforcement out of rust, scale or any other dirt, e.g. by sanding.

1b.

Remove concrete leftovers from corroded rods to ensure that thickness of reprofiled lagging is at least 1,5 cm.

Cleaned substrate should be moistened with plenty of water and brought into wet-matt state.

2. Application of ATLAS ADHER S

Reinforcement protection should be applied in two coats. Apply mortar with a brush upon cleaned reinforcing rods. Leave to dry for 3 hours.

Contact coat application. Apply mortar on reinforcing rods (second coat) and on matt-wet substrate.

3a. Application of ATLAS FILER S

Spread the mortar on contact coat with “wet on wet” technology. If the contact coat dries, it should be applied once again.

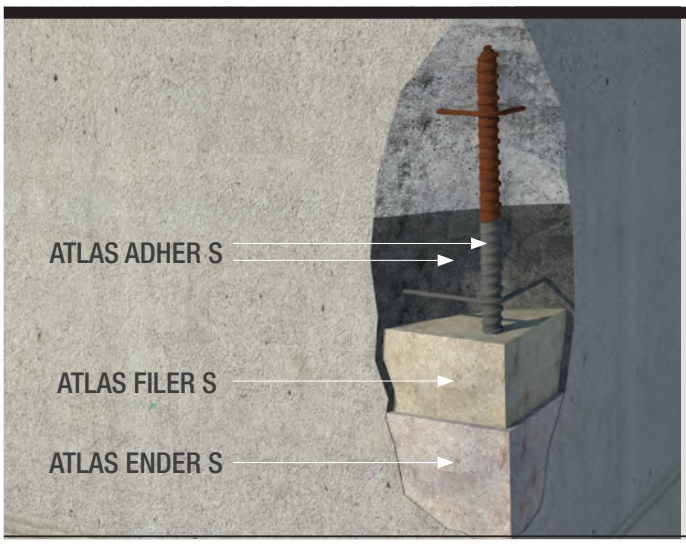
3b.

Press strongly the applied mortar against the substrate, especially in case of filling cavities. Next layer of ATLAS FILER S can be applied after 4 hours on moistened surface.

4. Application of ATLAS ENDER S

Finishing layer can be applied after 24 hours since the previous layers application. Substrate should be brought into wet-matt state.

Press strongly ATLAS ENDER S mortar against the substrate. Smoothen the surface with a steel float.



SET ATLAS BETONER S

System solution – for complex repairs of damaged concrete and ferroconcrete. It fulfils the requirements for class R3 acc. to the standard PN-EN 1504:3.

BETONER S enables to reconstruct the original shape of concrete and ferroconcrete elements.

It has a wide range of application and can be used to repair structural elements as well as to finish ceilings, terraces, balconies, beams, pillars, walls, stairs and floors.

REPAIR AND ASSEMBLY MORTARS

PRODUCT	ATLAS ZW 330*	ATLAS TEN-10	ATLAS MONTER T-5			ATLAS MONTER T-15	
	Quick levelling mortar	Rapid-set cement mortar	Rapid set assembly mortar			Rapid set assembly mortar	
Reference document	PN-EN 998-1:2016-12 PN-EN 13813:2003 AT-15-9437/2015	PN-EN-13813:2003 AT-15-4411/2011 + Annex 1	ITB-KOT-2017/0185			AT-15-4332/2016	
Package size (kg)	25	25	5; 25			25	
Type of packaging	paper bag	paper bag	alubag / paper bag			paper bag	
TECHNICAL DATA							
Mixing ratio - water/dry mix (l/kg)	0.17 – 0.22	0.12 – 0.15	approx. 0.25			0.12 – 0.13	
Consumption	19 kg / m^2 / 10 mm thickness	20 kg / m^2 / 10 mm thickness	1.8 kg per 1 dm^3 filling			2.0 kg per 1 dm^3 filling	
Pot life (min)	120	40	5			15	
Open time (min)	20	40	5			15	
Layer thickness min. / max. (mm)	3/30**	5/30	1/25***			20/50	
Compressive strength (N/mm^2)	≥ 20.0	≥ 40.0	after 1 h after 3 h after 6 h after 24 h after 28 days	without sand ≥ 10 ≥ 12 ≥ 15 ≥ 20 ≥ 44	with the addition of sand ≥ 8 ≥ 10 ≥ 12 ≥ 16 ≥ 38	after 6 h after 24 h after 28 days	≥ 25 ≥ 35 ≥ 70
Flexural strength (N/mm^2)	≥ 4.0	≥ 7.0		≥ 9	≥ 7.5	≥ 7.5	
Shear strength (N/mm^2)				≥ 10.5	≥ 9.5		
Fixing the tiles/top coat (h)	5 (5 mm thickness)	24	not applicable			not applicable	
Foot traffic / use (h)	8	3	not applicable			0.5	
Temporary sealing of local water leaks	-	-	+			-	
AREAS OF APPLICATION							
Interior and exterior walls	+	+	+				
Interior and exterior floors	+	+	+			+	
TYPE OF APPLICATION							
Repair of small local surfaces	+	+	+			+	
Repair of large floor surfaces	+	+					
Installation and anchoring of elements			+			+	
Sealing of local water leaks			+				
TYPE OF DAMAGE TO BE REPAIRED							
Cracks	+	+	+			+	
Deeper cavities	+	+	+			+	

ATLAS ELASTIC EMULSION

REFERENCE DOCUMENT
AT-15-6708/2016

PACKAGE SIZE
5 kg

RECOMMENDED USE
Component of the contact layer for floor screeds

PROPERTIES
Improves the adhesion of bonded screeds

* the product can be used as a screed
** to obtain a thicker layer (from 31 to 60 mm), add quartz sand (aggregate size up to 2 mm) at a ratio of 1:4 by weight (quartz sand : dry mortar)
*** for layer thickness of over 25 mm, mix MONTER T-5 with quartz sand at a ratio of 1:1

5

Finishing coats and plasters, interior paints

FINISHING COATS AND PLASTERS

FINISHING COATS **PLASTERS**

PRODUCT	GIPSAR UNI	PLUS GIPSAR	ATLAS GTA	ATLAS GIPS RAPID	ATLAS GIPS SOLARIS	ATLAS GIPS BONDER	ATLAS GIPS STONER
	White polymer-reinforced finishing coat	Finishing coat	Extra white finishing plaster	Ready-mixed polymer finishing coat	Gypsum plaster for manual application	Adhesive for plasterboards	Filling gypsum for tapeless jointing
Reference document	PN-EN 13279-1:2009		PN-EN 15824:2017 PN-EN 13463:2008	PN-EN 15824:2010	PN-EN 13279-1:2009	PN-EN 14496:2007	PN-EN 13963:2014
Package size (kg)	5; 10; 20	20	18	5; 18; 28	25	25	10
Type of packaging	foil		oval bucket for rollers	bucket	paper bag		
TECHNICAL DATA							
Binder	gypsum and polymer	gypsum and polymer	polymer	polymer	gypsum	gypsum	gypsum
Mixing ratio (water/dry mix) (l/kg)	0.39 – 0.40	0.35 – 0.45	ready-to-use product		approx. 0.60	approx. 0.50	approx. 0.50
Pot life (min)	90	60	whole shelf-life period		30	45	60
Adhesion strength (N/mm²)	≥ 0.5	≥ 0.5	≥ 0.3	≥ 0.3	≥ 0.3	≥ 0.06	≥ 0.25
Coverage (kg/m²)	1 / 1 mm thickness	0.8 / 1 mm thickness	1 / 1 mm thickness 0.5 / 1 m joint	1 / 1 mm thickness	0.85 / 1 mm thickness	2.5 – 5.0	0.5 / 1 m joint
Max. single coat thickness wall/ceiling (mm)	2/2	3/3	3/3	3/3	30/15	20/-	15/15
APPLICATION							
Finishing coat	+	+	+	+			
Interior plaster					+		
Fixing of plasterboards						+	
Jointing of plasterboards			+				+
Fixing of small gypsum elements						+	+
Embedding of electrical installations					+	+	
Application with a roller			+				
Manual application	+	+	+	+	+	+	+
Mechanical application	+	+	+	+			
“Wet-on-wet” technique			+				
Dust-free wet processing			+				
Manual sanding	+	+	+	+			
Mechanical sanding		+	+	+			

ATLAS GTA

Extra white finishing plaster

Application with a roller

- oval bucket ideal for roller application
- easy, smooth and quick application without splashing
- convenient application, no ladder needed
- quick application on vast surfaces

Extra white, perfectly smooth

- very smooth surface with one move of the feather edge
- easy to smoothen
- no cracks, no blisters
- with special snow-white mineral fillers

Dust-free wet sanding

- for wet sanding
- no dust, time-saving

Jointing of plasterboards

- highly elastic, resistant to cracking

Easy sanding

- can be sanded even after 30 days
- for places that are difficult to reach

Less dust during sanding

- heavy, falling dust

easy sanding
with dry and wet method

two functions
plastering and plasterboards jointing

wet-on-wet technique
next coat just after 2 h

polymer-modified
highly elastic and resistant to cracking

excellent consistency
for manual and mechanical application

INTERIOR PAINTS

				
PRODUCT	**ATLAS PROFARBA**	**ATLAS OPTIFARBA**	**ATLAS ECOFARBA**	**ATLAS BASE COAT PAINT**
Type of paint	latex	latex	acrylic	acrylic
Package content	10 l			
TECHNICAL SPECIFICATION				
Density (g/cm³)	1.45	1.45	1.45	1.45
Maximum coverage of 1 l (m²)	14	14	14	8
Maximum content of volatile organic compounds (*VOC*) (g/l)	29.9	29.9	29.9	29.9
Abrasion resistance acc. to PN-EN 13300:2002	Class 2	Class 3	Class 4	-
Water vapour diffusion equivalent air layer thickness S_d- (m) (after painting twice)	< 0.03	< 0.03	< 0.03	-
Thixotropy	yes	no	no	no
Application of the next coat (h)	2	2	3	2

6

Thermal insulation systems

EXTERNAL WALL INSULATION

ETICS (External Thermal Insulation Composite System) is an external wall insulation system - a complete set of materials for thermal insulation with full and checked compatibility of all components, which ensures unchanged technical parameters and aesthetic for many years. ATLAS provides wide range of adhesives, renders and paints within one insulation system.

External wall insulation systems are composed of:

- adhesive for thermal insulation,
- thermal insulation material (EPS, XPS, mineral wool, phenol foam boards),
- mechanical fixings,
- base coat – adhesive with reinforcing fibreglass mesh,
- primer and rendering coat.

Some parts of this system may differ, depending on specific job. System can have no reinforcing coat e.g. for application in garages or be covered with paint, ceramic tiles or decorative render.

While matching system elements, we shouldconsider a few factors:

- investment, current operational costs and possible saving,
- technical parameters of building (external wall material, building shape, desired façade aesthetics),
- fire and sound protection requirements,
- workmanship – thermal insulation should be carried out by experienced contractors and supervised by civil engineer.

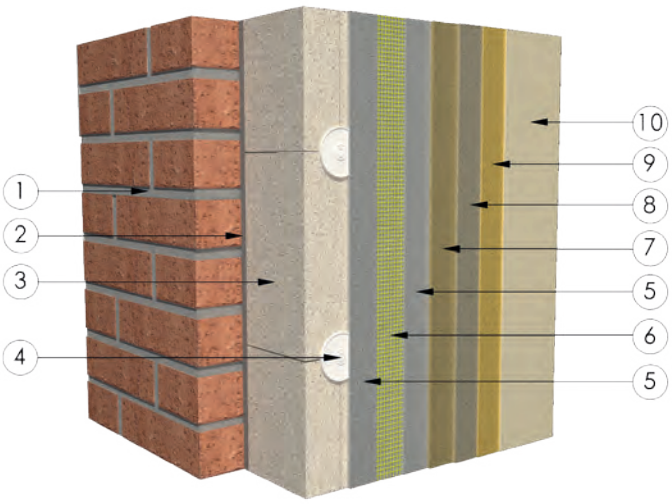
System completion

According to current regulations thermal insulation system is considered in its entirety as one construction product, therefore it must be applied with layers arrangement and with materials listed in the technical approval. It is unacceptable to use, so-called compilations or to use products from other systems or manufacturers, which are not accepted by the technical approval.

EXCHANGE OF ONE COMPONENT EXCLUDES SYSTEM FROM THE CATEGORY OF BUILDING PRODUCTS* AND CAN LEAD TO THE NON-FULFILMENT OFREQUIRE¬MENTS CONNECTED TO:

- **FIRE SAFETY**
- **FUNCTIONAL PROPERTIES**
- **AESTHETIC VALUES**

ATLAS ETICS composition



1 – wall
2 – adhesive for thermal insulation
3 – thermal insulation
4 – mechanical fixings
5 – adhesive for base coat
6 – reinforcing fibreglass mesh
7 – primer for render
8 – render
9 – primer for façade paint (optional)
10 – façade paint

THERMAL INSULATION SYSTEMS

according to technical approvals and technical assessments

SYSTEM	ATLAS ETICS PLUS	ATLAS ETICS	ATLAS CERAMIK	ATLAS RENOTER	ATLAS ROKER	ATLAS ROKER G
Reference document	ITB-KOT-2018/0584	AT-15-9090/2016	ITB-KOT-2018/0385	AT-15-8477/2016	AT-15-2930/2016	ITB-KOT-2018/0583
THERMAL INSULATION LAYER						
Styrofoam EPS	•	•	•	•		
Mineral wool					•	•
Lamella mineral wool					•	•
Beveled lamella mineral wool						•
ADHESIVE MORTAR FOR THERMAL INSULATIONS (•) ADHESIVE MORTAR FOR THERMAL INSULATIONS AND BASE COAT(••) BASE COAT MORTAR						
STOPTER K-100	•••					
STOPTER K-50		••		••	••	
STOPTER K-20		••	••	••		
HOTER U2	••					
HOTER U2-B	••					
HOTER S	•	•	•	•		
HOTER U		••	••	••		
ROKER U					••	••
ROKER W					•	•
BASE COAT - MESH						
Single: ATLAS 150; ATLAS 165	•	•	•	•	•	•
Double: ATLAS 150; ATLAS 165	•					
Double: ATLAS 150 + armoured mesh ATLAS 340	•					
TOP COAT – THIN-COAT RENDER, FACADE PAINT, CERAMIC TILES						
Silicone render	•	•		•	•	•
Silicone-silicate render	•	•		•	•	•
Silicate render	•	•			•	•
Acrylic render	•	•		•		
Mineral render	•	•		•	•	•
Façade paint	•	•		•	•	•
Ceramic tiles			•			
LIMITATIONS DUE TO BUILDING HEIGHT						
Height up to (m)	25	25	25	25	no limitations	not applicable
Application	Thermal insulation of any building type	Thermal insulation of any building type	Façades of particular operational requirements	Refubrishment of existing thermal insulation	Buildings of special fire resistance and acoustic requirements	Underground garages, passages under buildings

ADHESIVE MORTARS

GEL TECHNOLOGY

READY TO USE

PRODUCT	ATLAS STOPTER K-100	ATLAS STOPTER K-50	ATLAS STOPTER K-20	ATLAS HOTER U2-B	ATLAS HOTER U2
Reference document (technical approval)	ITB-KOT-2018/0584	AT-15-9090/2016 AT- 15-2930/2016 AT-15- 8477/2016	AT-15-9090/2016 AT-15-8477/2016 ITB-KOT-2018/0385 ed. 1	ITB-KOT-2018/0584	ITB-KOT-2018/0584
Package size (kg)	25				
Fibre-reinforced	+	+	+		
TECHNICAL SPECIFICATION					
Mixing ratio (water/dry mix) (l/25 kg)	not applicable	5.0 – 5.5	5.0 – 5.5	7.5 – 8.0	7.5 – 8.0
Pot life (h)	shelf life	4	4	4	4
Open time (min)	25	25	25	30	30
Adhesion to polystyrene (N/mm²)	≥ 0.08	≥ 0.1*	≥ 0.08	≥ 0.08	≥ 0.08
Adhesion to mineral wool (N/mm²)	not applicable	≥ 0.08	not applicable	not applicable	not applicable
Adhesion to concrete (N/mm²)	≥ 0.25	≥ 0.25	≥ 0.25	≥ 0.25	≥ 0.25
Consumption (kg/m²) – fixing of thermal insulation	not applicable	polystyrene 4.0 – 5.0 mineral wool 4.5 – 5.5	4.0 – 5.0	4.0 – 5.0	4.0 – 5.0
Consumption (kg/m²) – base coat	3.5 – 4.0	polystyrene 3.0 – 3.5 mineral wool 5.5 – 6.5	3.0 – 3.5	3.0 – 4.0	3.0 – 4.0
Application temperature (°C)	5 – 30	5 – 30	0 – 25	10 – 35	10 – 35
Colour of the reinforcement layer	white	white	grey	white	grey
Priming mass beneath rendering coat	not required	not required	required	not required	required
USE IN THERMAL INSULATION SYSTEM					
Fixing of thermal insulation		+	+	+	+
Fixing of thermal insulation and application ofbase coat	base coat only	+	+	+	+
TYPE OF THERMAL INSULATION					
Expanded polystyrene EPS	+	+	+	+	+
Mineral wool		+			
USE WITH THERMAL INSULATION SYSTEM					
ATLAS ETICS		+	+		
ATLAS ETICS PLUS	+			+	+
ATLAS ROKER		+			

* for polystyrene TR 100

ATLAS HOTER U	ATLAS HOTER S	ATLAS ROKER W	ATLAS ROKER U
AT-15-9090/2016 AT-15-8477/2016 ITB-KOT- 2018/0385 ed. 1	AT-15-9090/2016 AT-15-8477/2016 ITB-KOT- 2018/0584 ed. 1 ITB-KOT-2018/0385 ed. 1	AT-15-2930/2016 ITB-KOT-2018/0583	
25			
SPECIFICATIONS			
5.0 – 5.5	5.0 – 5.5	5.5 – 6.0	5.5 – 6.0
4	3	2	2
25	25	30	30
≥ 0.08	≥ 0.08	not applicable	not applicable
not applicable	not applicable	≥ 0.08	≥ 0.08
≥ 0.25	≥ 0.25	≥ 0.25	≥ 0.25
4.0 – 5.0	4.0 – 5.0	4.5 – 5.0	4.5 – 5.5
3.0 – 3.5	not applicable	not applicable	5.5 – 6.5
5 – 30	5 – 30	5 – 30	5 – 30
grey/white	not applicable	not required	grey
required	not required	not required	required
USE IN THERMAL INSULATION SYSTEM			
+	+	+	+
+			+
TYPE OF THERMAL INSULATION			
+	+		
		+	+
USE WITH THERMAL INSULATION SYSTEM			
+	+		
	+		
		+	+

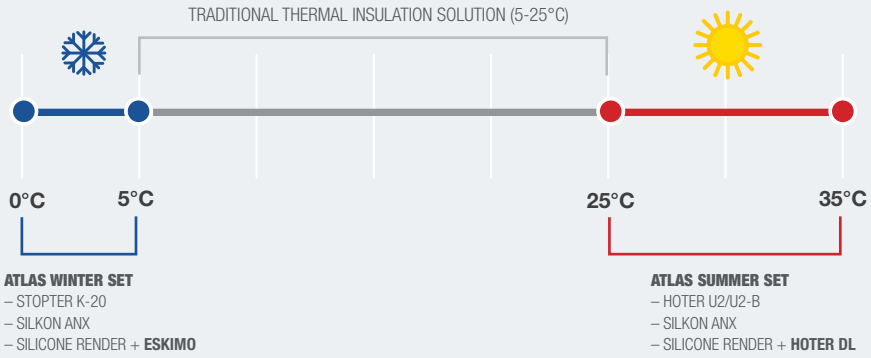
RENDERING PRIMERS

	READY TO USE	READY TO USE	READY TO USE
			
PRODUCT	**ATLAS CERPLAST**	**ATLAS SILKON ANX**	**ATLAS SILKAT ASX**
REFERENCE DOCUMENT	AT-15-9090/2016, AT-15-2930/2016, AT-15-9784/2016, AT-15-8477/2016, AT-15-7314/2016		
USE REGARDING THE TYPE OF RENDER			
Silicone		+	
Silicone – silicate		+	
Silicate			+
Acrylic	+		
Mineral	+		
Mosaic	+		
TECHNICAL SPECIFICATION			
Density (g/cm³)	1.5	1.5	1.5
Rendering (h)	4 – 6	4 – 6	4 – 6
Application temperature (°C)	5 – 30	5 – 30	5 – 30
Consumption (kg/m²)	0.3	0.3	0.3
USE WITH THERMAL INSULATION SYSTEM			
ATLAS/AVAL ETICS	+	+	+
ATLAS ETICS PLUS	+	+	+
ATLAS/AVAL ROKER	+	+	+
ATLAS ROKER G	+	+	+
ATLAS RENOTER	+	+	+

MODIFYING AGENTS FOR DISPERSIVE PRODUCTS

PRODUCT	ATLAS ESKIMO	ATLAS HOTER DL
Reference document	Additives are not classified as building products and therefore do not require technical approvals	
Recommended use	Accelerates drying of dispersive renders and paints, including mosaic renders	Summer additive for dispersive renders extending their open time
Properties	When added to renders or façade paints, enables their application at temperature close to 0°C.	Allows application of dispersion renders at temperature from +25°C up to +35°C. Does not change strength parametres and other properties of renders.

COMPARISON OF THERMAL INSULATION SYSTEM WITH AND WITHOUT MODIFYING AGENTS



ATLAS WINTER SET
– STOPTER K-20
– SILKON ANX
– SILICONE RENDER + **ESKIMO**

ATLAS SUMMER SET
– HOTER U2/U2-B
– SILKON ANX
– SILICONE RENDER + **HOTER DL**

Standard thermal insulation systems can be installed only at temperatures from 5 to 25°C.

In order to meet the expectations of the contractors, ATLAS offers additives for dispersive products (renders and paints), that make possible to apply them at lower or higher temperature:
– 0-5°C: ATLAS Eskimo
– 25-35°C: ATLAS Hoter DL

THIN-COAT FAÇADE RENDERS

standard

DISPERSIVE RENDERS | **MINERAL RENDERS**

PRODUCT	ATLAS/AVAL SILICONE RENDER	ATLAS/AVAL ACRYLIC-SILICONE RENDER	ATLAS SILICONE-SILICATE RENDER	ATLAS SILICONE RENDER	ATLAS/AVAL ACRYLIC RENDER	ATLAS CERMIT ND ATLAS CERMIT ND FOR PAINTING
Type of render	SILICONE		SILICONE - SILICATE	SILICATE	ACRYLIC	MINERAL
Reference document	AT-15-9090/2016 AT-15-2930/2016 AT-15-8477/2016 ITB-KOT-2018/0584 ed. 1	AT-15-9090/2016, AT-15-9784/2016	AT-15-9090/2016 AT-15-2930/2016 AT-15-8477/2016 ITB-KOT-2018/0584 ed. 1		AT-15- 9090/2016 AT- 15-9784/2016	AT-15-9090/2016 AT-15-2930/2016 AT- 15-8477/2016 AT-15-9784/2016 AT-15-7314/2016 ITB-KOT-2018/0584 ed. 1
Package size (kg)	25					
OPERATIONAL DATA						
Binder	styrene-acrylic and silicone resin with addition of siloxanes	styrene-acrylic and silicone resin	styrene-acrylic resin; silicone resin; potassium silicate	styrene-acrylic resin; potassium silicate	styrene-acrylic resin	cement, lime
Priming mass	ATLAS SILKON ANX	ATLAS CERPLAST AVAL KT 16	ATLAS SILKON ANX	ATLAS SILKAT ASX	ATLAS CERPLAST AVAL KT 16	ATLAS CERPLAST
Texture	spotted	spotted	spotted	spotted	spotted	spotted
Colour range	400 + 80 intense colours	400	400	264	400	1 (white)
Aggregate size (mm):	1.5 2.0	1.5	1.5 2.0	1.5	1.5	1.5 2.0
Coverage (kg/m²)	2,5/N-15 3/N-20	2,5/N-15	2,5/N-15 3/N-20	2,5/N-15	2,5/N-15	2,5/N-15 2,8/N-20
Pot life (h)	whole shelf life					1.5
METHOD OF APPLICATION						
Manual	+	+	+	+	+	+
Mechanical	+	+	+	+	+	-
TECHNICAL SPECIFICATION						
Water vapour permeability V ($g/m^2/24$ h)	medium 15 < V2 ≤ 150	medium 15 < V2 ≤ 150	high V1 > 150	high V1>150	medium 15 < V2 ≤ 150	not applicable
Water permeability W ($kg/m^2h^{0.5}$)	low W3 < 0,1	medium 0,1 < W2 < 0,5	medium 0,1 < W2 < 0,5	medium 0,1 < W2 < 0,5	medium 0,1 < W2 < 0,5	≤1ml/cm^2 after 48 h
S_d (m)	0.14 – 1.4	0.14 – 1.4	< 0.14	< 0.14	0.14 – 1.4	< 0.14
Resistance to biological corrosion	+	+	+	+	+	+
Resistance to biological corrosion after washing, tested acc. to standard PN-EN 15458	+	+	+	+	+	+
Maximum impact resistance* / maximum resilience (J)	140	120	120	Class I	Class III	Class I
Maximum hail impact resistance (m/s)**	30 ***	22				
pH	8	8	9	9.5	8	12

* the results of the impact resistance tests for the individual systems are available in AT/KOT at www.atlas.com.pl under the tab SYSTEMS

** tested in a base coat containing the mesh ATLAS 150 + ATLAS 340

*** the value given is the capacity limit of the measuring device

THIN-COAT FAÇADE RENDERS

decorative

	DISPERSIVE RENDERS						MINERAL RENDERS	
						READY TO USE		
								
PRODUCT	ATLAS DEKO M					ATLAS CERMIT N-100	ATLAS CERMIT BA-M	ATLAS CERMIT WN
	TM0	TM1	TM3	TM5	TM6			
Type of render	MOSAIC					FOR TEMPLATES	MINERAL	
Reference document	AT-15-9090/2016					AT-15-9090/2016	AT-15-9090/2016 AT-15-2930/2016 AT-15-8477/2016 ITB-KOT- 2018/0584	AT-15-9090/2016 AT-15-2930/2016 ITB-KOT- 2018/0584
Package size (kg)	15; 25					25		
OPERATIONAL DATA								
Binder	acrylic resin					styrene-acrylic and silicone resin	cement, lime	
Priming mass	ATLAS CERPLAST/AVAL KT 16					ATLAS CERPLAST/ AVAL KT 16	ATLAS CERPLAST/AVAL KT 16	ATLAS CERPLAST AVAL KT 16
Texture	standard mosaic	fine mosaic	standard mosaic	stone effect	sandstone effect	spotted / sandstone	concrete effect	timber effect (application with silicone templates)
Number of colours	unlimited	120	20	13	unlimited - 6 recommended	400	1	1 (white)
Aggregate size (mm):	2	0.8	2	1.2	0.5	1	1.5	1
Consumption (kg/m²)	3 – 5.5	1.5 – 2.5	3 – 5.5	2.4 – 4.3	1.5 – 2.5	2	< 3	2.5 – 3.0
Pot life (h)	whole shelf life						3	1
METHOD OF APPLICATION								
Manual	+	+	+	+	+	+	+	+
Mechanical	-	-	-	+	+	+	-	-
SPECIFICATIONS								
Water vapour permeability V (g/m²/24 h)	medium 15 < V2 ≤ 150					medium 15 < V2 ≤ 150	not applicable	medium 15 < V2 ≤ 150 (with ATLAS BEJCA impregnating sealer)
Water permeability W (kgm²h^{0,5})	medium 0,1 < W2 < 0,5					medium 0,1 < W2 < 0,5		≤ 1ml/cm² after 48 h
S_d (m)	0.14 – 1.4					0.14 – 1.4	0.14 –1.4	0.14 – 1.4
Resistance to biological corrosion	+					+	+	+
Resistance to biological corrosion after washing, tested acc. to standard PN-EN 15458	+					+	+	+
pH	8					8	12	12

THIN-COAT FAÇADE RENDERS

standard – USE

	DISPERSION RENDERS					MINERAL RENDERS
	READY TO USE	READY TO USE	READY TO USE	READY TO USE	READY TO USE	
						
Trade name:	**ATLAS/AVAL SILICONE RENDER**	**ATLAS/AVAL ACRYLIC-SILICONE RENDER**	**ATLAS SILICONE-SILICATE RENDER**	**ATLAS SILICATE RENDER**	**ATLAS ACRYLIC RENDER**	**ATLAS CERMIT ND ATLAS CERMIT ND FOR PAINTING**
Type of render	SILICONE	ACRYLIC-SILICONE	SILICONE - SILICATE	SILICATE	ACRYLIC	MINERAL
TYPE OF INSULATION						
EPS	+	+	+	+	+	+
Mineral wool	+	-	+	+	-	+
TYPE OF BUILDING						
Residential housing	•••••	•••••	••••	•••	••••	•••
Public access and commercial	•••••	••••	••••	•••	•••	•••
Industrial	•••••	•••	••••	••	••	•••
Farm and livestock buildings	•••••	••	••••	••••	••	••••
Infrastructure	•••••	••••	••••	••	••••	••
Heritage buildings	•••	-	••	•••••	-	••••
Interior application	+	+	+	+	+	-
LOCATION						
City, urban and industrial areas	•••••	•••••	•••	•••	•••	•••
Rural and agricultural areas	•••••	•••	•••	•••	•	•••
Wetlands, areas near water reservoirs	•••••	•••	•••	••••	•	••••
Forest areas	•••••	•••	•••	•••••	•	•••••
USE WITH THERMAL INSULATION SYSTEM						
ATLAS/AVAL ETICS	+	+	+	+	+	+
ATLAS ETICS PLUS	+	-	+	+	+	+
ATLAS ROKER G	+	-	+	+	-	+
ATLAS/AVAL ROKER	+	-	+	+	-	+
ATLAS RENOTER	+	-	+	-	+	+

••••• best possible solution

• limited applicability

THIN-COAT FAÇADE RENDERS

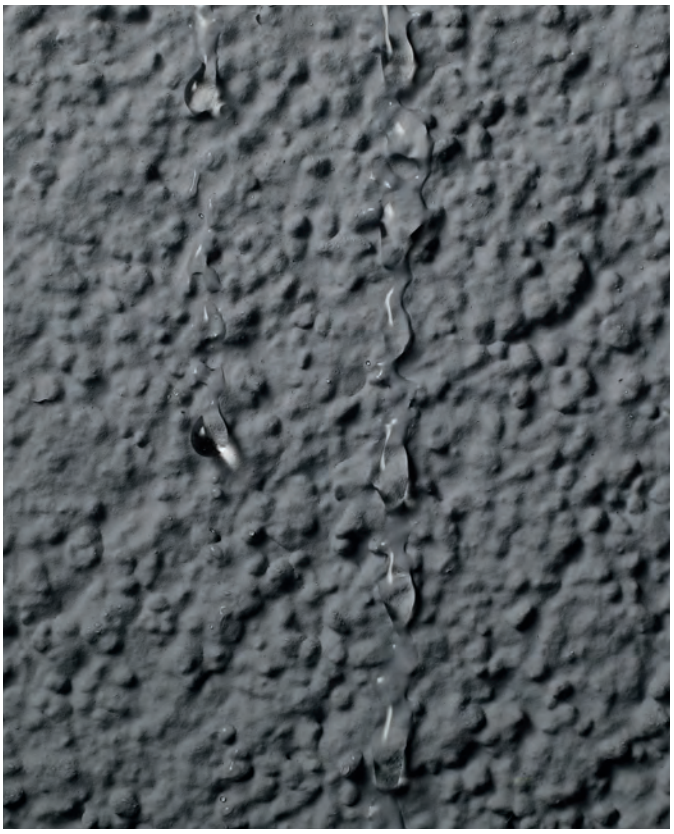
decorative – APPLICATION

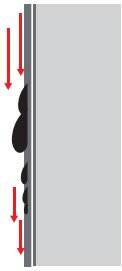
DISPERSION RENDERS | **MINERAL RENDERS**

Trade name:	ATLAS DEKO M					ATLAS CERMIT N-100	ATLAS CERMIT BA-M	ATLAS CERMIT WN
	TM0	TM1	TM3	TM5	TM6			
	MOSAIC					FOR TEMPLATES	MINERAL	
EPS	+					+	+	+
Mineral wool	-					-	+	+
TYPE OF BUILDING								
Residential housing	•••••					•••••	•••••	•••••
Public access and commercial	•••••					•••••	•••••	•••••
Industrial	••••					•••••	•	•
Farm and livestock buildings	•					••••	•	•
Infrastructure	•••••					•	•••	•
Heritage buildings	-					••	-	-
Interior application	+					+	-	+
LOCATION								
City, urban and industrial areas	•••••					•••••	••••	•••••
Rural and agricultural areas	•••••					•••••	••	•••••
Wetlands, areas near water reservoirs	••					•••	•••	•••••
Forest areas	••					•••	••••	•••••
USE WITH THERMAL INSULATION SYSTEM								
ATLAS/AVAL ETICS	+					+	+	+
ATLAS ETICS PLUS	-					-	-	-
ATLAS ROKER G	-					-	-	-
ATLAS/AVAL ROKER	-					-	+	+
ATLAS RENOTER	-					-	+	+

ATLAS SILICONE RENDER

premium product

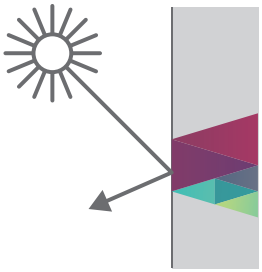




STAIN RESISTANCE AND SELF-CLEANING EFFECT

Efficient protection against dirt

- high water repellency
- very low absorbency
- structural tightness



INTENSIVE AND DURABLE COLOURS

400 SAH + 80 intense colours

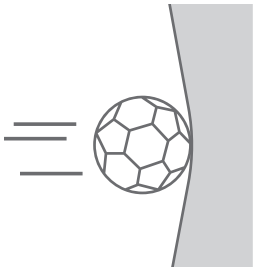
- extreme resistance to UV radiation
- perfect coverage owing to the high content of titanium white
- colour fastness owing to the content of pigments with high resistance to UV radiation.

HIGH ELASTICITY

HBW > 15** HBW > 5***

- no cracks in the façade even with a low lightness coefficient HBW* (~5%)
- possibility of using dark, intensive colours on large surfaces

* HBW – lightness coefficient (p. 83)
** HBW > 15 with HOTER U2 (HOTER U2B) + ATLAS Silicone Render
*** HBW > 5 with STOPTER K100 + ATLAS Silicone Render



RESISTANCE TO MECHANICAL IMPACTS

No cracking, high elasticity

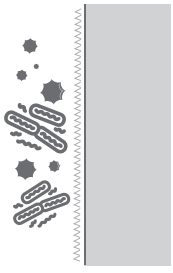
– resilience / resistance to hard body impacts min. 140 J
– resistance to hail hailstorm - impact of hailstone of diameter 5 cm with speed over 100 km/h

ATLAS SILICONE RENDER

BASE COAT		SUBSTRATE	HAIL IMPACT
mesh	adhesive mortar		
ATLAS 150	ATLAS HOTER U2	ATLAS SILKON ANX	6 m/s
ATLAS 150	ATLAS STOPTER K-100	-	5 m/s
ATLAS 150 + 340			> 30 m/s *

BASE COAT		SUBSTRATE	RESILIENCE**
mesh	adhesive mortar		
ATLAS 150	ATLAS HOTER U2	ATLAS SILKON ANX	20 J
ATLAS 150	ATLAS STOPTER K-100	-	20 J
2 x ATLAS 150			30 J
ATLAS 150 + 340			140 J

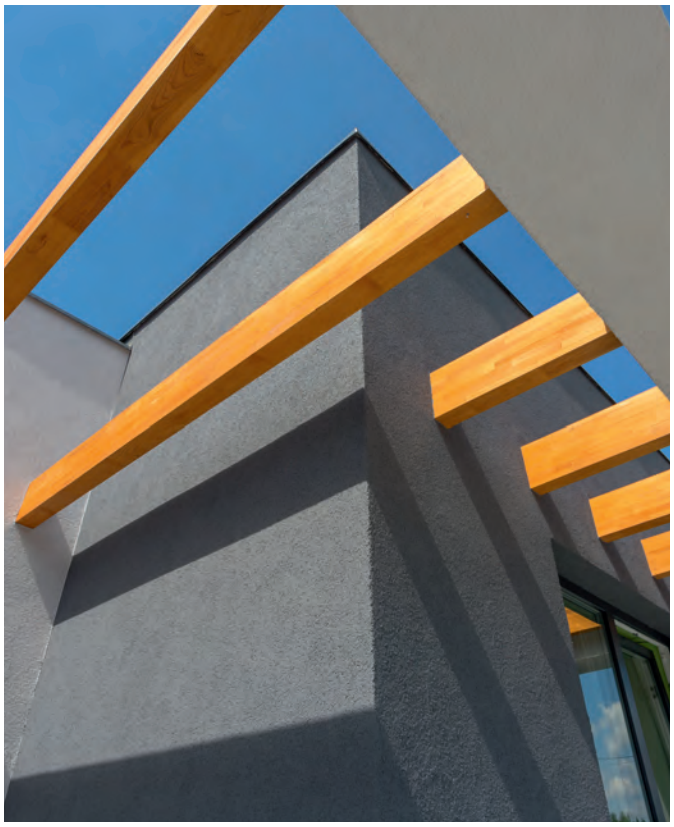
* the value given is the capacity limit of the measuring device
** impact of a hard body



HEALTH AND SAFETY

Resistance to biological growth

– efficient biocidal protection
– high concentration of hydrophobic agents
– low absorption rate



ATLAS DECORATIVE RENDERS

elegance and effectiveness

HIGHLIGHTING OF MODERN BUILDING DESIGNS AND ARCHITECTURAL ELEMENTS

- protection against facade deterioration through environmental factors and day-to-day use
- primarily intended for exterior use, but can be used for interior

ATLAS CERMIT BA-M

Concrete effect

ATLAS DEKO M

Stone effect TM5

Sandstone effect TM6

Mosaic TM0, TM1, TM3

ATLAS CERMIT WN

ATLAS BEJCA

Timber effect

ATLAS CERMIT N-100

Brick effect

ATLAS METALLIC VARNISH

Metal effect

FAÇADE PAINTS







PRODUCT	ATLAS SALTA N PLUS	ATLAS SALTA N	ATLAS SALTA	ATLAS SALTA S	ATLAS SALTA E	ATLAS BEJCA	ATLAS METALLIC VARNISH
Type of paint	SILICONE PAINT			SILICATE PAINT	ACRYLIC PAINT	STAIN	METALLIC VARNISH
Reference document	PN-EN 1062-1:2005	AT-15-9090/2016. AT-15-2930/2016 AT-15-9784/2016, AT-15-7314/2016 AT-15-8477/2016, ITB-KOT-2018/0583			AT-15-9090/2016 AT-15-8477/2016	AT-15-9090/2016 AT-15-2930/2016	PN-EN 1062-1:2005
Packaging size	10 l					1 l; 4 l	4 kg
Colour range	400	400	400	352	400	10	4
APPLICATION PROPERTIES							
Primer	not required, dilute the paint on highly absorbent substrates				not required, use ATLAS UNI-GRUNT on highly absorbent substrates	not required	
Density (kg/dm^3)	1.44	1.44	1.42	1.5	1.53	1.02	1.6
Application temperature (°C)	5 – 30	5 – 30	5 – 30	5 – 25	5 – 30	10 – 30	5 – 30
Drying time (h)	2	2 – 6	2 – 6	2 – 3	2 – 4	1 – 2	0.5
Application of the next layer (h)	3	6	6	6	6	6	
Application on fresh mineral render after minimum	5 days	5 days	5 days	2 days	28 days	3 days	2 days
Coverage from 1 litre (single application) (m^2)	4 – 6.6	4 – 6.6	4 – 8	4.5 – 6	4 – 8	4 – 5	4 – 5
TECHNICAL PROPERTIES							
Gloss G	G3 – matt	G3 – matt	G3 – matt	G3 – matt	G3 – matt	not applicable	G2 (semi-gloss)
Coating thickness E (µm)	100 < E3 < 200	100 < E3 < 200	100 < E3 < 200	100 < E3 <200	100 < E3 < 200	not applicable	not applicable
Aggregate size (µm)	S1 – fine < 100	S1 – fine < 100	S1 – fine < 100	S1 – fine < 100	S1 – fine < 100	not applicable	not applicable
Water vapour permeability V (g/m^2/24 h)	medium $15 < V_2 < 150$			high $V_1 > 150$	medium $15 < V_2 < 150$	medium $15 < V_2 < 150$	
Water permeability W (kg/m^{2}h$^{0.5}$)	low $W_3 < 0,1$			medium $0,1 < W_2 < 0,5$	low $W_3 < 0,1$	low $W_3 < 0,1$	
S_d (m) for E	0.14 – 1.4			< 0.14	0.14 – 1.4	0.14 – 1.4	0.14-1.4
Opacity (white paint)	Class 1 / yield 8 m^2		Class 2 / yield 8 m^2			not applicable	
pH	8	8	8	11 – 12	8	8	7.5
Bonding grade	1	1	1	1	1	1	1
Evaluation of degree of blistering, cracking and flaking	no blistering, cracking and falking						
TYPE OF SUBSTRATE							
Mineral substrates: concrete, traditional plaster	+	+	+	+	+	+	+
Thin-coat mineral render	+	+	+	+	+	+	+
Thin-coat acrylic render	+	+	+		+		+
Thin-coat silicone render	+	+	+		+		+
Thin-coat silicone-silicate render	+	+	+	+			+
Thin-coat silicate render	+	+	+	+			+
USE WITH THERMAL INSULATION SYSTEMS							
ATLAS ETICS		+	+	+	+	+	
ATLAS ETICS PLUS		+	+	+			
ATLAS ROKER G		+	+	+		+	
ATLAS ROKER							
ATLAS RENOTER					+		

ATLAS SALTA N PLUS

premium silicone paint

SALTA N IS MORE THAN A SILICONE PAINT. SPECIAL COMPOSITION OF BINDERS, SILICONE RESINS AND FILLERS GUARANTEES FULFILMENT OF THE HIGHEST EXPECTATIONS OF CONTRACTOR AND THE FINAL USER

Painting coat made with ATLAS Salta N PLUS has an extremely low absorbency, is highly hydrophobic, vapour-permeable and very elastic. Salta N PLUS does not form a closed, tight coating, like acrylic paints, but a microporous surface with open pores. It is important to point out that water vapour diffusion occurs only in one direction – to the outside, while the painted surface has an above-average water resistance.

Innovative system of multi-functional fillers ensures vapour permeability and dirt resistance. This is essential for facades exposed to algae, lichen, fungi and mould.

ATLAS Salta N PLUS has early resistance to precipitation. In many tests it has been confirmed that just 2 hours after its application the paint becomes resistant to possible precipitation.

resistant to dirt and biological corrosion

vapour-permeable

400 colours resistant to UV radiation

2 hours

early resistance to precipitation

hydrophobic and waterproof

highly flexible

FAÇADE PAINTS

application





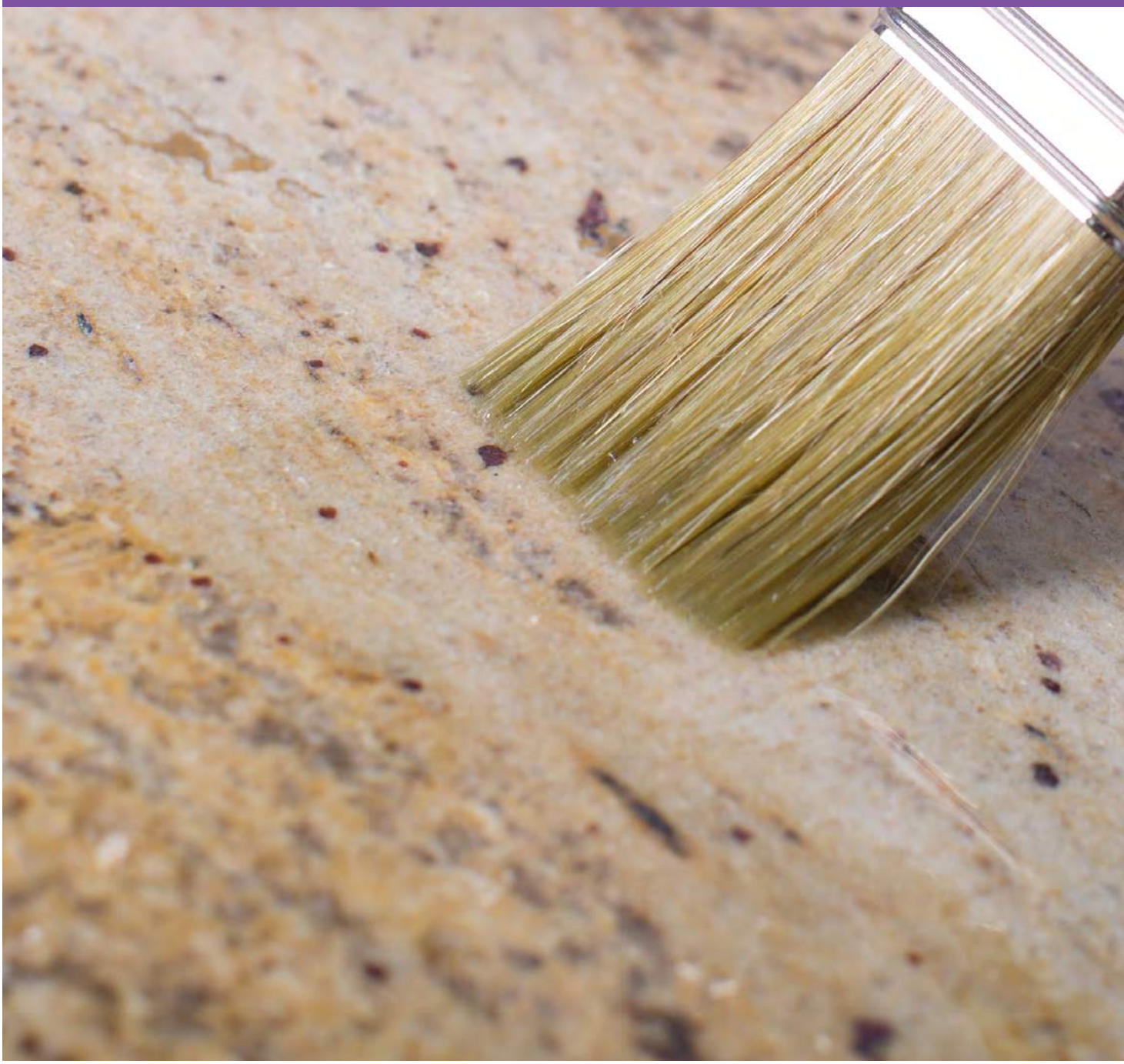
PRODUCT	ATLAS SALTA N PLUS	ATLAS SALTA N	ATLAS SALTA	ATLAS SALTA S	ATLAS SALTA E
Type of paint	SILICONE PAINT			SILICATE PAINT	ACRYLIC PAINT
TYPE OF INSULATION					
EPS	+	+	+	+	+
Mineral wool	+	+	+	+	-
APPLICATION					
Thin-coat mineral renders	•••••	•••••	••••	•••••	•••
Thin-coat silicate renders	•••	•••	••	•••••	•
Thin-coat silicone renders	•••••	•••••	••••	-	••
Thin-coat silicone-silicate renders	•••••	•••••	••••	-	••
Lime and renovation plasters	•••	•••	••	•••••	-
Acrylic renders	•••••	•••••	••••	-	•••••
Lime-cement and cement plasters	•••••	•••••	••••	•••••	••
Concrete	•••••	•••••	••••	•••••	••
Rough walls (concrete, bricks, hollow blocks)	•••••	•••••	••••	••••	•••
Silicate paint	•••	•••	••	•••••	•
Silicone paint	•••••	•••••	••••	-	•••
Acrylic paint	•••••	•••••	••••	-	•••••
Interior use	+	-	-	+	+
TYPE OF BUILDING					
Residential housing	•••••	•••••	••••	••••	•••
Public access and commercial	•••••	•••••	••••	••••	•••
Industrial facilities	••••	•••••	••••	•••	•••
Farm and livestock buildings	••••	•••••	••••	••••	•••
Infrastructure	•••••	•••••	••••	•••	••••
Heritage buildings	•••	•••	•••	•••••	-
LOCATION					
City, urban and industrial areas	•••••	•••••	••••	•••	••••
Rural and agricultural areas	•••••	•••••	••••	••••	•••
Wetlands, areas near water reservoirs	•••••	•••••	••••	•••••	•••
Forest areas	•••••	•••••	•••	•••••	••

••••• best possible solution

• limited applicability

7

Cleaning agents, impregnating sealers, care agents



CLEANING AGENTS



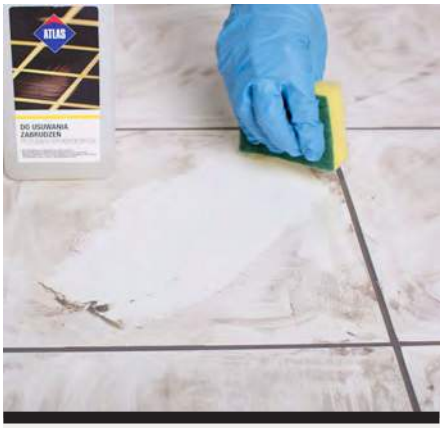


PRODUCT	ATLAS AGENT FOR REMOVAL OF SILICONE	ATLAS AGENT FOR REMOVAL OF STAINS OF EPOXY GROUTS	ATLAS CONCENTRATED AGENT FOR STRONG CEMENT DEPOSITS	ATLAS AGENT FOR REMOVAL OF STAINS OF PAINTS, PRIMERS AND RENDERS	ATLAS MYKOS PLUS - CONCENTRATED AGENT FOR ELIMINATION OF ALGAE, FUNGI AND LICHEN
Package size	0.15 kg	1 l	1 l / 5 l	1 l	1 l / 5 l
TYPE OF STAINS					
Mould, fungi, algae, lichens					+
Scale, rust, soap deposits			+		
Silicone residues	+				
Epoxy grout residues		+			
Grout, cement adhesive residues			+		
Residues from dispersive paints, adhesives and renders				+	
Residues from mineral mortars, renders and finishing coats			+		

REMOVAL OF PERSISTENT CONTAMINATIONS

residues of cement

residues of paint, primer and render



residues of epoxy grout

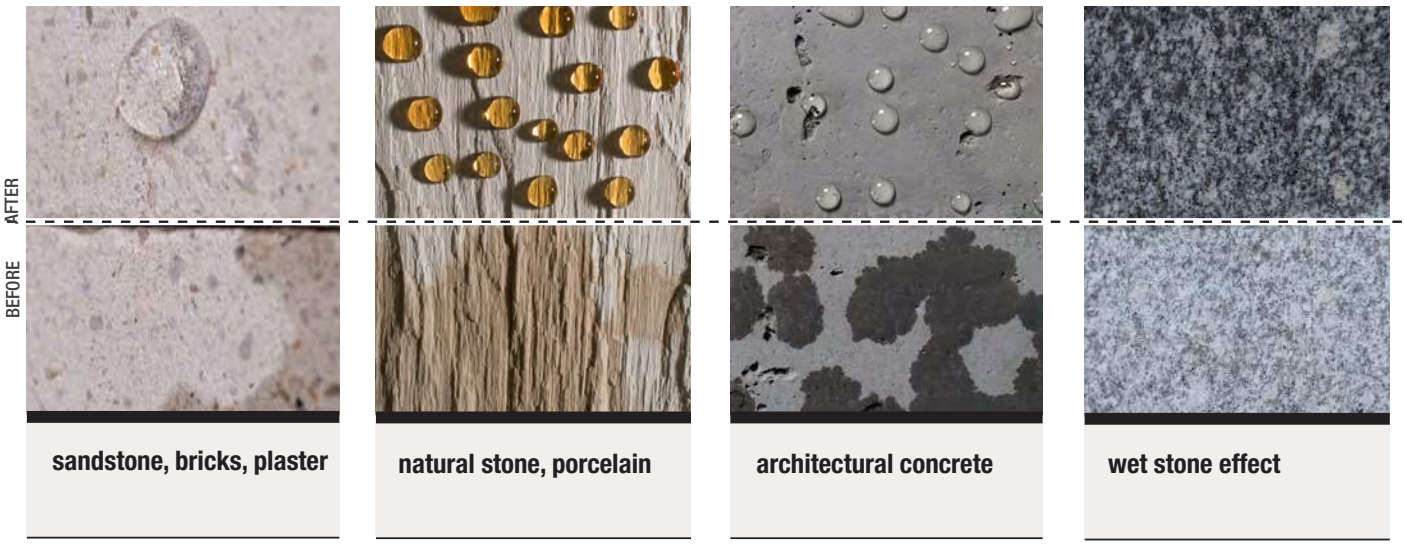
IMPREGNATING SEALERS






PRODUCT	ATLAS IMPREGNATING SEALER FOR GROUTS AND TILES	ATLAS IMPREGNATING SEALER FOR NATURAL STONE AND GRES	ATLAS IMPREGNATING SEALER FOR GYPSUM AND CEMENT DECORS	ATLAS IMPREGNATING SEALER FOR ARCHI-TECTURAL CONCRETE	ATLAS EFFECT OF WET STONE	ATLAS IMPREGNATING SEALER FOR SAND-STONE, BRICK AND PLASTERS
Package size	1 l	1 l	1 l	1 l	0.25 l	1 l / 5 l
Coverage (m2 / 1 l)	15–20	15–20	15–20	approx. 5	approx. 40	5–15
TYPE OF IMPREGNATED SURFACE						
Cement grouts	+		+			
Ceramic tiles	+	+	+			
Glazed ceramic tiles		+	+			
Unglazed and polished porcelain tiles	+	+	+			
Glazed porcelain tiles		+	+			
Terracotta	+	+	+			
Natural stone		+			+	+
Polished natural stone		+				
Synthetic stone		+			+	
Cement tiles/elements	+		+		+	+
Brick, stone and clinker walls		+				+
Gypsum tiles/elements			+			
Terrazzo			+		+	
Concrete			+		+	+
Architectural concrete				+		
Paving stone			+		+	
Plaster			+			+

EFFECTIVE IMPREGNATION AND PROTECTION AGAINST CONTAMINATION



MAINTENANCE AGENTS

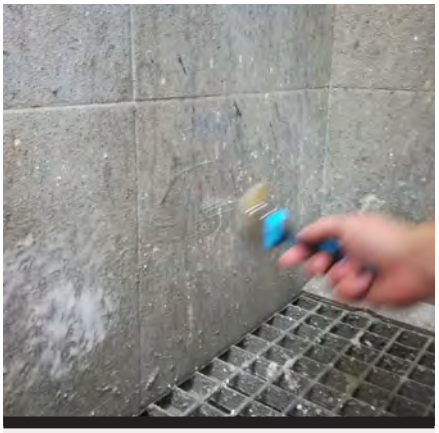



PRODUCT	ATLAS CLEAN TILES	ATLAS CLEAN GROUTS	ATLAS MYKOS NO 1 - FOR REMOVAL OF FUNGI AND ALGAE	ATLAS AGENT FOR REMOVAL OF CEMENT DEPOSITS AND STAINS
Package size	1 l	0.5 l	0.5 l	0.5 l
TYPE OF STAINS				
Utility dirt (coffee, tea, wine, mud, dust)	+	+		+
Cooking oil, wax	+			
Mould, fungi, algae, lichens			+	
Scale, rust, soap deposits		+		+

CLEANING AND CARE

dirt and deposits on tiles

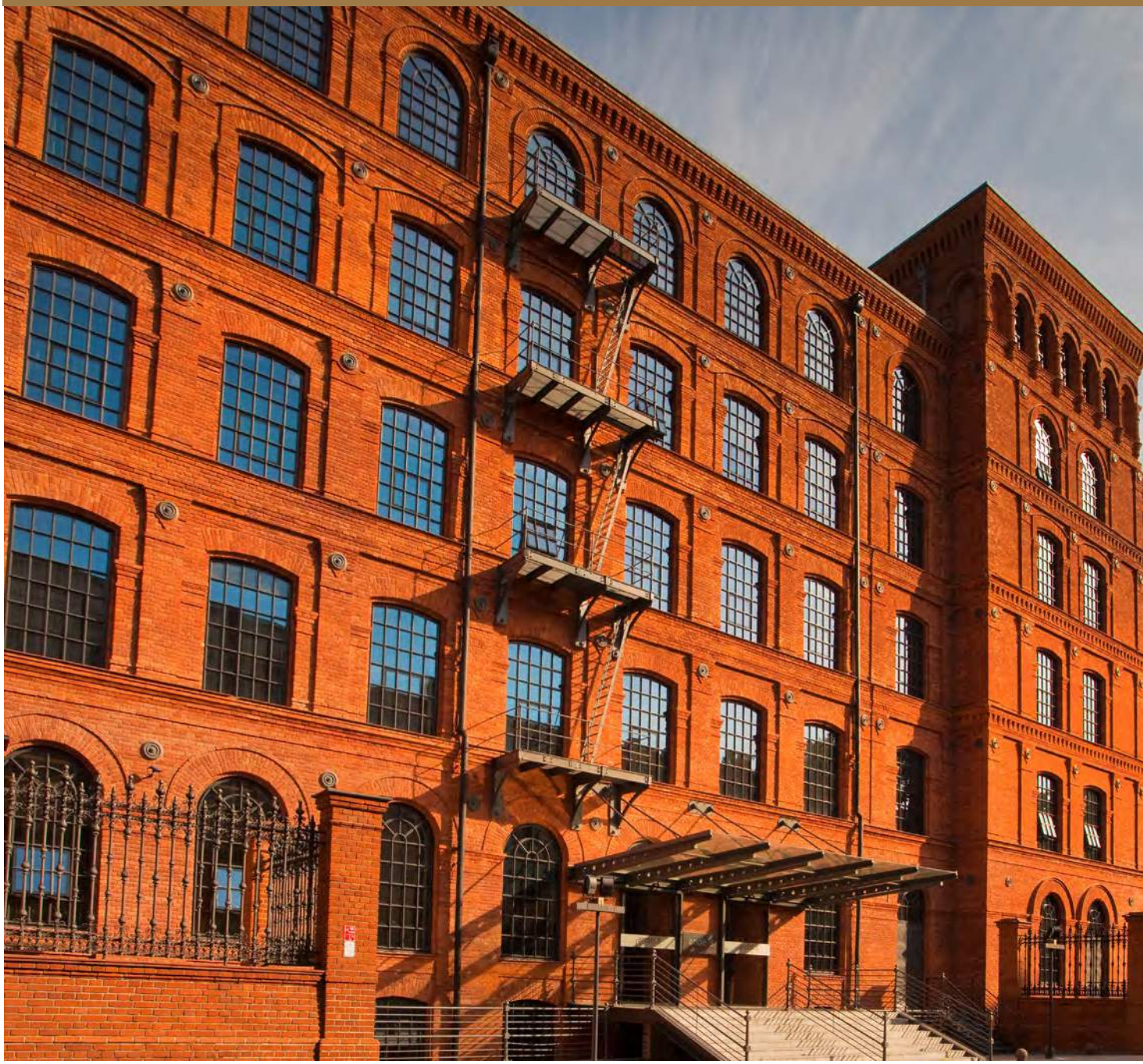
persistent dirt in joints



scale deposits, cement residues

8

Renovation systems



RENOVATION RENDERS AND INJECTION AGENTS

PRODUCT	ATLAS TRO	ATLAS TRP	ATLAS TR	ATLAS TSG	ATLAS TS
Function of the mortar	scratch coat	base coat plaster	renovation plaster	renovation filler	renovation filler
Reference document	PN-EN 998-1:2016-12				
Type of mortar*	R	R	R	OC	OC
TECHNICAL DATA					
Mixing ratio (water/dry mix) (l/kg)	5.5/25	4.00-4.50 / 25	4.00-4.50 / 25	7.0-8.0 / 25	7.0-8.0 / 25
Coat thickness (mm)	≤ 5 mm	5-25	10-25	1-10	1-10
Pot life (h)	4	2	2	2	2
Coverage (kg/m^2)	5	12 /1 cm thickness	12 / 1 cm thickness	15 / 1 cm thickness	15 / 1 cm thickness
Colour	grey	grey	white, grey	grey	white
APPLICATION METHOD					
Manual	+	+	+	+	+
Mechanical	+	+	+	+	+
AREAS OF APPLICATION					
Interior	+	+	+	+	+
Exterior	+	+	+	+	+
TYPE OF SUBSTRATE					
Ceramic	+	+	+	+	+
Silicate	+	+	+	+	+
Concrete	+	+	+	+	+

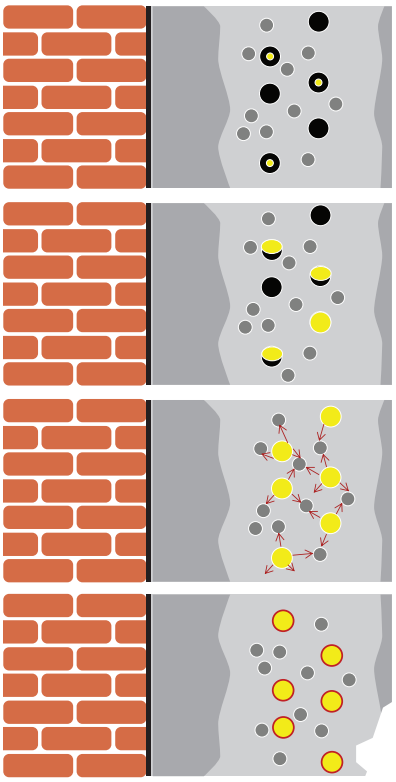
* classification of plastering mortars acc. to standard – see p. 81

Product	ATLAS KS	ATLAS KI
	2 in 1 liquid for sealing injection	silane cream for injection
Density (g/cm^3)	1.2	0.9
Gravitational injection	+	+
Pressure injection	+	
Substrate reinforcement	+	
Consumption	Injection: 15 kg/m^2 of the horizontal wall cross-section Substrate reinforcement: 0,3kg/m^2	per 1 m wall wall thickness 30 cm; drillhole diameter Ø 12 mm – approx. 300 ml wall thickness 45 cm; drillhole diameter Ø 12 mm – approx. 450 ml wall thickness 60 cm; drillhole diameter Ø 12 mm – approx. 600 ml

RENOVATION PLASTERS

Renovation plasters – this is the common expression for the group of products used for renovation of damp and salt damp walls. Layer arrangement in a system depends on concentration and type of salt – determination of its type is a crucial step of wall examination. The typical examination includes tests for presence of chloride, sulphate and nitrous ions.

PLASTER RENOVATION SYSTEM ACCUMULATES SALT IN ITS STRUCTURE, PREVENTS FROM FORMING EFFLORESCENCE, ACCELERATES WALL DRYING.



PERFORMANCE OF PLASTER RENOVATION SYSTEM

Mortars included in a plaster restoration system:
- **scratch coat (ATLAS TRO)** – contact coat, improves adhesion of the following layers. Requires application in an openwork layer < 50% and 5 mm thickness.
- **renovation base coat plaster (ATLAS TRP)** – hydrophilic intermediate layer, for use on walls with high salt dampness and large irregularities.
- **renovation plaster (ATLAS TR)** – hydrophobic renovation plaster containing lightweight fillers which are partially compensating deformations arisen as a result of crystalizing of salts in the structure of plaster.

The system is supplemented with renovation finishing coats:
- **ATLAS TS** fine-aggregate renovation finishing coat
- **ATLAS TSG** coarse-aggregate renovation finishing coat

Wall can be coated with paint of very high diffusion or low absorptivity: silicone paint **ATLAS SALTA N** or silicate paint **ATLAS SALTA S**.

INJECTION AGENTS

SECONDARY STRUCTURAL SEALING is installed when the building originally did not have vertical damp proofing course or original one is not effective. Secondary damp proofing is designed for blocking of capillary water transport which result in stopping of further corrosion process and allows for drying of damp walls.

Performance of secondary sealing is based on two mechanisms, which limit capillary action: crystallization and hydrophobization.

Crystallizing agents settle in pores and capillaries. As a result of chemical reactions occurring there insoluble and partially soluble compounds are formed which cause closure or decrease of cross-section of capillaries.

Hydrophobizing agents affect the walls of capillaries by changing their contact angle, which leads to the formation of a water repellent coat inside of the capillary which stops the water action.

Bifunctional agents: crystallizing and hydrophobizing combine these two mechanisms which makes them more versatile.

ATLAS KS is bifunctional, reactive and deeply penetrating injection liquid which forms durable structural protection against capillary action. Allows for gravitational and pressurized injection in walls made of brick, concrete and natural stone.
In walls with < 10% humidity (slightly and moderately damp) it is possible to use gravitational and pressurized injection, with < 20 % humidity (highly damp) it is recommended to use gravitational injection method only. When the wall has greater humidity, injection should be preceded by initial wall drying (e.g. with microwaves).

ATLAS KI is an injection cream based on silanes which is designed for forming of horizontal membrane in existing wall by chemical injection. Owing to the high content of active substance (approx. 80%) may be used in walls with humidity up to 95%. Application of the product is easy and does not require special equipment.

Any injection work should be preceded by wall examination.

ATLAS RENOVATION SYSTEM INCLUDES 5 PRODUCT GROUPS WHICH MIGHT BE SELECTED AND MERGED INTO SYSTEM DEPENDING ON INDIVIDUAL NEEDS

DAMP-PROOFING

ATLAS Woder S – watertight cement mortar

ATLAS Woder DUO – elastic two-component damp proofing

Multi-purpose bitumen mass ATLAS

Bitumen membranę ATLAS SMB

Izohan Izobud WM 2K – two-component thick-coat bitumen mass

ATLAS KI – silane injection cream

ATLAS KS – bifunctional injection liquid

ATLAS TRP – filling mortar for application prior to injection

ATLAS Monter T-5 – rapid-set mortar for stopping of leakages

ATLAS Monter T-15 – rapid-set assembly mortar

ATLAS IN – filling mortar for cavities after injection

PLASTER RENOVATION SYSTEM

ATLAS TRO – renovation scratch coat

ATLAS TRP – renovation base coat plaster

ATLAS TR – renovation plaster

ATLAS TSG – coarse-aggregate renovation finishing coat

ATLAS TRB – white renovation plaster

ATLAS TS – fine-aggregate renovation finishing coat

WALL RENOVATION SYSTEM

ATLAS KS – bifunctional injection liquid

ATLAS SW – reinforcing impregnating sealer based on alkyl-silicone resin for brick and natural stone

ATLAS CG-02 – repair mortar for brick and natural stone

ATLAS MASONRY MORTAR FOR CLINKER – WITH TRASS – for masonry and jointing of clinker, brick and natural stone

ATLAS IMPREGNATING SEALER FOR NATURAL STONE AND GRES

ATLAS IMPREGNATING SEALER FOR SANDSTONE, BRICK AND PLASTER

REPAIR AND RENOVATION OF PLASTERING COATS

ATLAS MYKOS PLUS concentrated agent for elimination of algae, fungi and lichen

ATLAS AGENT FOR REMOVAL OF STAINS OF PAINTS, PRIMERS AND RENDERS

ATLAS CONCENTRATED AGENT FOR TOUGH CEMENT DEPOSITS

ATLAS TRO – scratch coat

ATLAS Plastering mix

ATLAS Light machine-applied plaster

ATLAS TSG – coarse-aggregate renovation finishing coat

ATLAS Woder S – watertight cement mortar

ATLAS Rekord – white cement finishing coat

ATLAS Salta N – silicone paint

ATLAS Salta S – silicate paint

ATLAS IMPREGNATING SEALER FOR NATURAL STONE AND GRES

ATLAS IMPREGNATING SEALER FOR SANDSTONE, BRICK AND PLASTER

MOULDING MORTARS

ATLAS ZMB 05 – fine-aggregate mortar for stucco mouldings

ATLAS ZMB 25 – coarse-aggregate mortar for stucco mouldings

ATLAS ZMP – lightweight mortar for drawn plasters

ATLAS SM-finisz – stucco finishing coat

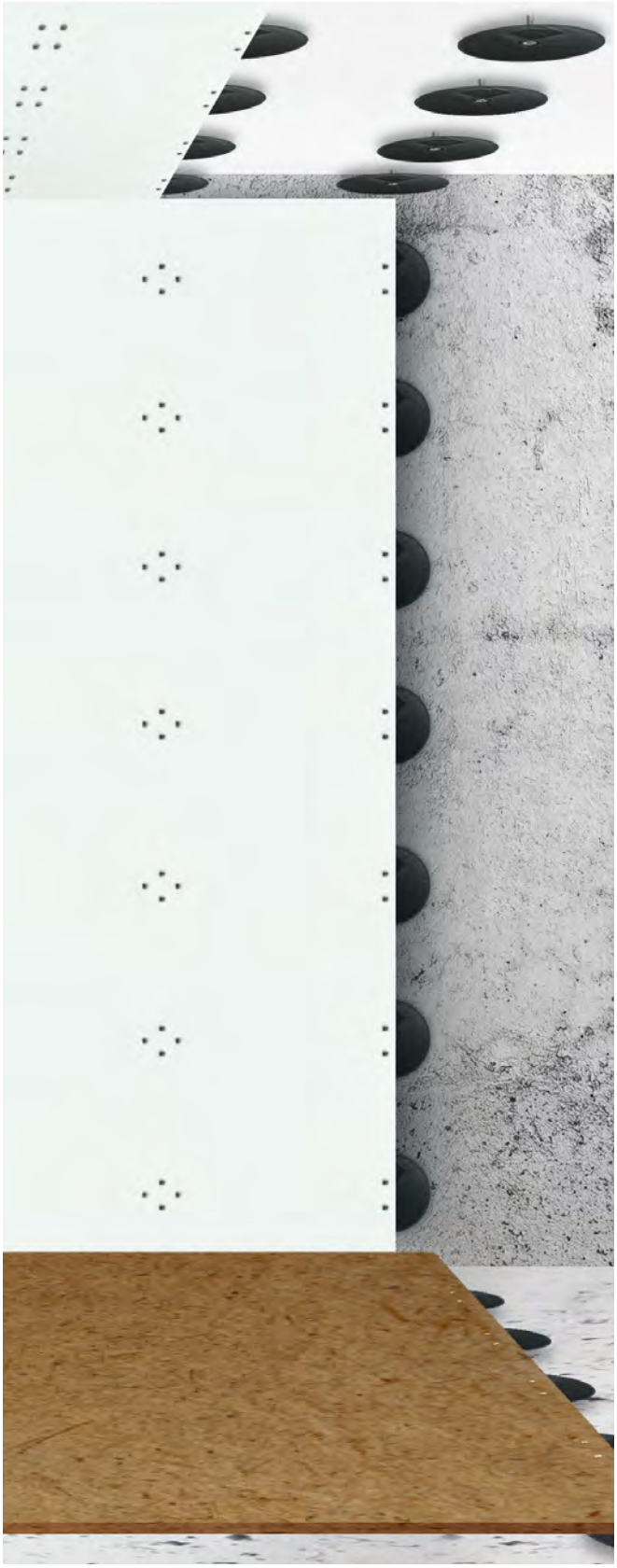
ATLAS IMPREGNATING SEALER FOR GYPSUM AND CEMENT DECORS

9

ATLAS M-SYSTEM 3G

ATLAS M-SYSTEM 3G

Anchors for fixing plasterboards and OSB



SWITCH TO ATLAS M-SYSTEM 3G

- quick system for fixing plasterboards and OSB
- ceilings
- walls
- attics
- **floors NEW!**

DISTANCE BETWEEN LINING AND SUBSTRATE FROM 1 CM

– quick and easy to install
– self-adjusting anchor
– point fixing – no stresses, no cracks or fissures
– light and comfortable to transport
– no anchoring material waste during the installation (in comparison to traditional stud frame technologies)

Spacing of the anchors in cm	Required quantity pcs/m²	Recommended use
40 x 40	8	ceilings
40 x 60	6	walls
40 x 80	6*	attic
62.5 x 62.6	4	floors

* depending on the shape of the attic

ATLAS M-SYSTEM 3G INCLUDES:

- **mounting plates** with an integrated ball joint allowing for the adjustment of the distance from the substrate and the plane within an angle of ± 27°
- **fixing screws** with a thread with an external diameter of:
  - **ϕ 6.5 mm for walls, ceilings and attics**, available lengths:
    – 50 mm **NEW!**
    – 100 mm
    – 150 mm
    – 200 mm
    – 250 mm
  - **ϕ 8.5 mm for floors NEW!** for fixing of floors made of OSB over existing substrate, allows for:
    – installation a floor on an uneven substrate with low strength
    – installation of acoustic insulation
    – installation of thermal insulation
- **anchoring sleeves**
- **screws** for plasterboards or OSB with a length of 25 mm or 35 mm, with corrosion protection

MOVABLE JOINT MADE OF ZAMAK
(zinc aluminium alloy)

PACKAGE CONTENTS

We offer two two variants of product:
– for floors
– for walls, ceilings and attics.
Each ATLAS M-SYSTEM PACKAGE contains a complete set of components. The stickers on the packages inform about the lenght of the fixing elements included in the set.

anchoring sleeves
21 pc.

fixing element
ϕ 8.5 mm
21 pc.

fixing element
ϕ 6.5 mm
21 pc.

screws for OSB
(galvanised)
84 pc.

screws for
plasterboards
(oxidised)
84 pc.

Mounting plates
21 pc.

ATLAS M-SYSTEM

Anchors for fixing plasterboards and OSB

SMOOTH ADJUSTMENT OF DISTANCE

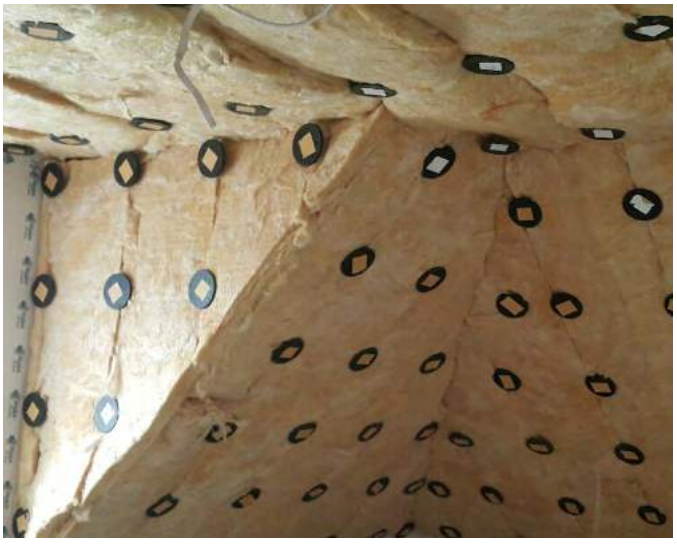
AND INCLINATION ANGLE

EASY LEVELLING OF UNEVEN SUBSTRATES

FOR INSTALLATION OF RAISED FLOORS

ON SCREEDS, JOISTS AND CEILING BEAMS

IDEAL FOR CASING SHAFTS, ATTICS ETC



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Additional information

ADDITIONAL INFORMATION

Classification of building products according. to standards

CLASSIFICATION OF ADHESIVES ACC. TO THE STANDARD PN-EN 12004:2017-03

According to the standard adhesive mortars are divided into:

- **C** cement-based adhesives
- **D** dispersive adhesives
- **R** reactive resin-based adhesives

Adhesive type depends on the type of binder and the method of bonding. Cement-based adhesives (C) use cement as binder and bond by hydration. Dispersive adhesives (D) use organic resins as binder and bond by drying. Reactive resin-based adhesives (R), on the other hand, are two-component adhesives and bond as a result of a chemical reaction between the components of the adhesive mortar.

Each of three types of adhesives can be available in different classes. Standard lists the following classes of adhesives:

- **1** Standard setting adhesive
  bonding after 28 days ≥ 0.5 N / mm^2
- **2** Adhesives of improved parameters;
  bonding after 28 days ≥ 1.0 N / mm^2
- **F** Rapid set adhesives;
  bonding after 6 hours ≥ 0.5 N / mm^2
- **T** Adhesives of reduced slip;
  slip not exceeding 0.5 mm
- **E** Adhesives of extended open time;
  bonding after 28 days > 0.5 N / mm^2,
- **S1** Deformable adhesives
- **S2** Highly deformable adhesives

Deformability of an adhesive is a feature which determines the ability of transfer of shear tensions at joints between adhesive and substrate. Such tensions can occur, for example, between adhesive and elastic substrate, which is the case when fixing ceramic tiles on OSB boards or on substrates which change temperature due to external factors (e.g. terraces, balconies or floors with heating systems). In these cases one should apply deformable adhesives marked with S1 or S2 symbol.

Example of adhesive labelling
- ATLAS PLUS EXPRESS - (C2 FTE S1)

- **C2** cement adhesive of improved parameters, bonding ≥ 1.0 N/mm2
- **F** fast setting
- **T** of reduced slip
- **E** of extended open time
- **S1** deformable

CLASSIFICATION OF GROUTS ACC. TO PN-EN 13888: 2010

Grouts are divided into three types:

CG1 cement grout of standard setting

CG 2 WA cement grout of enhanced parameters, reduced water absorption and improved resistance to abrasion

RG grout based on reactive resins

Example of grout labelling -

ATLAS TIGHT GROUT - (CG2 WA)

CG 2 cement grout of enhanced parameters

W of reduced water absorption

A of improved resistance to abrasion

CLASSIFICATION OF INTERIOR SCREEDS ACC. TO PN-EN 13813:2003

Interior screeds are divided according to the type of binder used in their production:

CT cement - based screeds
CA anhydrite - based screeds (calcium sulfate)
MA magnesium screeds
AS asphalt screeds
SR screeds made of synthetic resins

Each of the screeds listed above can be characterized by the following properties:

C compressive strength (N/mm^2)
F flexural strength (N/mm^2)
A resistance to abrasion (cm3/50 cm^2)

Example of screed labelling -
ATLAS POSTAR 40 (CT-C30-F6-A22)
CT a cement screed
C30 of compressive strength ≥ 30 N/mm^2
F6 of flexural strength ≥ 6 N/mm^2
A22 of resistance to abrasion ≤ 22 cm3 /50 cm^2

Resistance to abrasion of ATLAS products is listed in accordance to the Böhm's method. It consists in determination of volume of material abraded from the screed surface of 50 cm^2. Thus, the higher level of A index, the lower resistance to abrasion of a screed is. Therefore, a screed labelled with A22 class has lower resistance to abrasion than the one labelled with A15 class.

CLASSIFICATION OF MASONRY MORTARS ACC. TO PN-EN 998-2: 2012

Masonry mortars are divided according to their use:

- **G** – general use
- **T** – for tight joints
- **L** – lightweight

Mortar classes:

CLASS	M1	M2,5	M5	M10	M15	M20	MD
Compressive strength (N/mm^2)	1	2.5	5	10	15	20	D*

* D – IS THE COMPRESSIVE STRENGHT OF OVER 25 N/MM2, DECLARED BY THE MANUFACTURER AS A MULTIPLE OF 5.

CLASSIFICATION OF PLASTERING MORTARS ACC. TO PN-EN 998-1: 2016-12

Plastering mortars are divided according to their use:

- **GP** – general purpose
- **LW** – lightweight
- **OC** – one-coat for external applications
- **CR** – coloured
- **R** – renovation
- **T** – thermal insulation

Categories of plastering mortars:

PROPERTIES	CATEGORIES	VALUES
Range of compressive strength after 28 days of setting (curing) [N/mm^2]	CS I CS II CS III CS IV	0.4 - 2.5 1.5 - 5.0 3.5 - 7.5 ≥ 6
Water absorption due to capillary rising [kg/m^2•min$^{0.5}$]	W 0 W 1 W 2	not determined C ≤ 0.40 cC ≤ 0.20
Thermal conductivity coefficient [W/m•K]	T1 T2	≤ 0.1 ≤ 0.2

TYPES OF WATERPROOFING

Light waterproofing – protects from water flowing freely from the sealed surface. Light waterproofing is applied, for sssssssssssexample, in bathrooms. The water freely runs down the walls without forming pools.

Medium waterproofing – protects from water accumulating at the surface in form of pools (puddles). A good example are balcony and terrace floors, where, despite a gradient, water stays for a longer time in form of puddles, for example as a result of melting snow. Waterproofing of this type should be applied also inside buildings, e.g. on bathroom floors with linear water drains.

Strong waterproofing – protects against pressure-generating water. This means that water permanently acts on the sealed surface. The best examples here are swimming pools and water tanks.

DEFINITIONS

Abrasion resistance

In construction, abrasion resistance describes the loss of mass or volume under the influence of an abrasive factor. The abrasion resistance is an important parameter for materials used for flooring. Manufacturers of construction materials usually define the abrasion resistance with the Böhme method. This is also the method used by ATLAS. For floors, the loss of volume is measured in cm^3 per surface of 50 cm^2. The abrasion resistance of screeds is indicated with the letter A and the number.
Attention! The higher the number given with the symbol "A", the lower the resistance of the material against abrasion.

Wet mass

The wet mass W_m is the quotient of the mass of water contained in a material to the mass of dry material:

$$w_m = \frac{m_w - m_s}{m_s} \cdot 100\% = \frac{m_{water}}{m_s} \cdot 100\%$$

when:
w_m – wet mass [%]
m_w – weight of the wet sample [kg]
m_s – weight of the sample after drying to constant weight [kg]
m_{wody} – mass of water contained in the sample [kg]

Absorbency

Absorbency of a material depends on the size and structure of pores. In construction, absorbency is usually determined in terms of weight. It describes the amount of water a material can absorb. In practice, it means the maximum moisture content of a material. The weight-related water absorption determines the ratio of the maximum mass of the water absorbed by a material to the weight of the material in its dry state and is given in percentages. Consequently, an absorbency of 15% means that the material in its wet state is 15% heavier than in the dry state.

Diffusion resistance coefficient μ

This parameter allows to assess the tightness of a building structure (layer) for water vapour. The essence of this phenomenon consists in the "passing" of water vapour through the building structure as a result of the pressure difference on both sides of the building structure. It can be defined as a number indicating how many times in specific thermal conditions the diffusion resistance (resistance to water vapour) of a material layer is greater than the diffusion resistance of an air layer of the same thickness. The μ-factor is a dimensionless quantity, its knowledge alone does not say anything about the water vapour permeability of a building structure. It is therefore important to set it in relation to the thickness of the building structure and to establish the water vapour diffusion equivalent air layer thickness S_d.

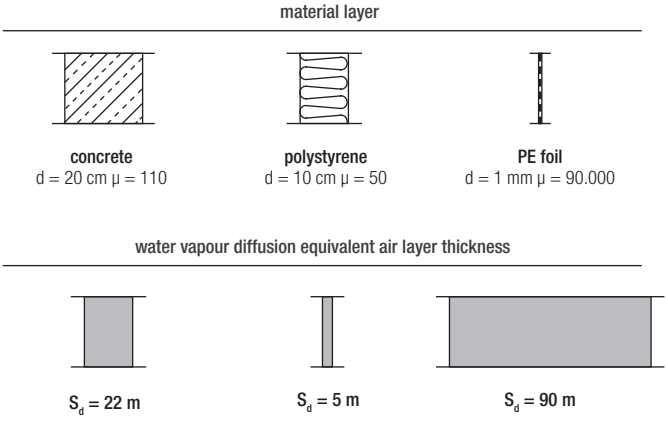
Water vapour diffusion equivalent air layer thickness S_d

The parameter S_d defines the thickness of a stationary air layer characterised by the same diffusion resistance as a layer of the given material with the thickness d.

$$S_d = \mu \cdot d$$

when:
S_d – water vapour diffusion equivalent air layer thickness [m]
μ – diffusion resistance coefficient of the material
d – thickness of the building structure [m]

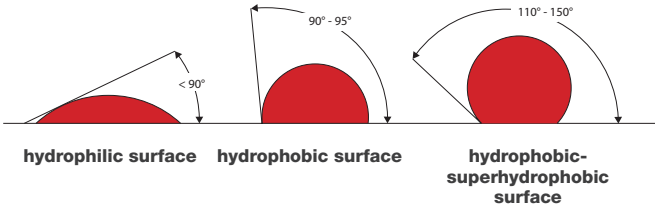
material	Coefficient "μ"	Thickness d [m]	Water vapour diffusion equivalent air layer thickness S_d
air	1.0	1.0	1.0
mineral wool	1.3	0.2	0.26
gypsum	10	0.015	0.15
solid ceramic brick	10	0.5	5
polystyrene	50	0.2	10
concrete	110	0.2	22
plywood	150	0.012	1.8
acrylic render	150	0.003	0.45
bitumimous sheeting	from 6000	0.004	24
PE foil	from 22000	0.001	22



Wetting angle of contact

The wetting angle of contact allows to classify a given material as hydrophobic, i.e. less susceptible to wetting (contact angle > 90°) or hydrophilic, i.e. susceptible to wetting (contact angle < 90°). When a material has a wetting angle of contact of over 110°, it is called superhydrophobic.

The larger the contact angle, the stronger the surface repels water and the substances contained in it, including all kinds of dirt. Water coming into contact with such a surface (e.g. rain) runs off the material together with the contaminations on the surface (dust, pollen and other solid impurities) – the material is therefore self-cleaning.



Thermal conductivity coefficient “λ”

The thermal conductivity coefficient λ describes the ability of a material to conduct warmth. It is determined by measuring the amount of heat passing through 1 m^2 of a material with a thickness of 1 m at a temperature difference of 1K. A low value of the coefficient λ characterises materials with a low thermal conductivity, which are therefore good thermal insulators. Below a list of the coefficients λ for selected building materials.

Coefficients “λ” for selected building materials

Material	Thermal conductivity coefficient λ [W/mK]
Concrete with stone aggregate	1.00
Wall of solid ceramic bricks	0.77
Wall of hollow ceramic brick with cement-lime masonry mortar	0.33
Pine timber in transverse direction	0.16
Polystyrene	0.031 – 0.045
Mineral wool	0.031 – 0.045

The values given in the table apply to medium-humid materials.

Thermal resistance

The thermal resistance R (m^2K/W) depends on the thickness of a layer of material and the coefficient λ and is described with the formula:

$$R = \frac{d}{\lambda}$$

List of layer thicknesses of selected building materials, for which the thermal resistance is the same:

R = 0,25 (m^2K/W)

LAYER THICKNESS OF SELECTED MATERIALS WITH THE SAME THERMAL RESISTANCE

Material	Layer thickness [cm] for a thermal resistance of R = 0,25
Polystyrene	1.0
Pine timber in transverse direction	4.0
Wall of hollow ceramic brick	8.0
Wall of solid bricks	19.3
Concrete with stone aggregate	25

Thermal transmittance “U”

The thermal transmittance of a building structure is described with the coefficient “U” [W/(m^2K)], which defines the amount of heat passing through 1 m^2 of the structure. In physical terms, the coefficient “U” is the inverse of the thermal resistance “R” of a structure:

$$U = \frac{1}{R}$$

A low U-value means that little heat passes through building structure, e.g. the exterior wall of a building. Therefore, the lower the U-value, the better the thermal insulation of the building structure. As the thermal insulation of walls is key to energy efficiency, it is not surprising that the U-value and, in fact, its limit value are prescribed by the technical conditions to which buildings and their location should conform. Currently, the limit value Uc_{max} for the exterior walls of a residential building must not be greater than 0.23 [W/(m^2K)].

HBW – (from the German term *Hellbezugswert*) **lightness coefficient (in %)**

HBW = 100 means that the entire amount of scattered light is reflected by a surface. The lower the HBW, the more energy is accumulated in the given material, meaning that surface is exposed to greater thermal stresses and therefore more suscetible to cracking.

Intense, especially dark colouors, absorb more light than light colours.

According to the recommendations of the Polish Building Research Institute ITB, colours with an HBW < 20 can be applied on maximum 10%* of a façade surface.

*Atlas Silicone Render can be used for the entire surface of a façade, owing to its special composition and the combination with a suitable adhesive mortar in the reinforcement layer.

DEFINITIONS

Impact resistance

The impact resistance is a material's resistance to impact. This value is important for thermal insulation systems, as they are directly exposed to external mechanical influences during their operation. The higher the impact strength, the better the protection against incidental damage (e.g. vandalism), but also the protection of areas permanently exposed to damage.

Definitions of application categories.

APPLICATION CATEGORY	DESCRIPTION
I	Areas directly accessible from the ground and exposed to possible impacts from hard bodies but not subject to abnormally severe strain
II	Areas exposed to possible impacts caused by thrown or kicked objects but, owing to their public location and height, with a limited degree of exposure, or at lower levels where access is easier, up to places requiring permanent protection
III	Areas unlikely to be damaged by a simple impact (man) or a thrown or kicked object

The purpose of steel ball impact and dynamic puncture tests (Perfotest) is to simulate the effect of heavy objects with a permanent shape (non-deforming) or sharp edges accidentally hitting a thermal insulation system. Based on the results, the system must be assigned to one of the following three categories I, II or III:

	CATEGORY III	CATEGORY II	CATEGORY I
Impact with an energy of 10 J		no fracture**	no damage*
Impact with an energy of 3 J	no fracture**	no cracks	no damage*
Perfotest	no puncture*** with a punch of 20 mm	no puncture*** with a punch of 12 mm	no puncture*** with a punch of 6 mm

* Surface damage without cracks is defined as: "no damage".
**The test result is assessed as: "fracture occurs", if circular cracks are visible which pass through the render layers to the insulation.
***The test result is assessed as: "puncture occurs", if the render is damaged to a level below the reinforcement layer in at least three of the five test sites.

The values given in the table are taken from ETAG 004 (guidelines for technical approval)

For systems with higher technical parameters, maximum impact loads are determined, to which they can be subjected without any changes in properties, including their appearance. For example, for the system ATLAS ETICS PLUS the maximum impact load is 140 J (when reinforced with the meshes 150 + 340 and with the dispersion adhesive ATLAS STOPTER K100).

UNITS OF MEASUREMENT USED IN CONSTRUCTION

The current system of measurements is the SI system – the International System of Units of Measurement approved in 1960 by the General Conference on Weights and Measures. The SI units are divided into basic and derived units. The table below presents basic SI units as well as selected derived units used in technology, in particular in construction.

Basic and selected derived SI units

BASIC UNITS

VALUE	NAME	SYMBOL
Length	metre	m
Weight	kilogramme	kg
Time	second	s
Temperature	Kelvin	K

DERIVED UNITS

VALUE	NAME	SYMBOL
Force	Newton	N
Pressure	Pascal	Pa (N/m^2)

Regardless of the official measuring system, there is still a generic system describing primarily stresses, where the unit of stress is a kilogram per unit area expressed in centimetres or in metres. Below are the conversion factors from the SI system to the "generic" system.

CONVERSION OF LOAD AND STRESS UNITS

10 N ≈ 1 kG
1 MPa = 1 N/mm^2
1 MPa ≈ 10 kG/cm^2

EXAMPLE:
the compressive strength of the screed ATLAS Postar 40 is: 30 N/mm^2 = 30 MPa ≈ 300 kG/cm^2

CONVERSION OF THE UNIT OF PRESSURE

1 MPa = 100 000 mm water column = 100 m water column

EXAMPLE:
the resistance to pressurised water of ATLAS Woder Duo is: 0.7 MPa = 70 m water column

BUILDING TOMORROW

TAKE YOUR JOB TO THE NEXT LEVEL

UNDER PARQUET, FLOORING, CLADDING

SMS

15/30

RAPID-SET
SELF-LEVELLING
COMPOUND

WALK ON AFTER 4 H
TILLING AFTER 24 H
PARQUET/CARPET AFTER 7 DAYS

1-15 MM

3-30 MM

NOTES

CONTACT

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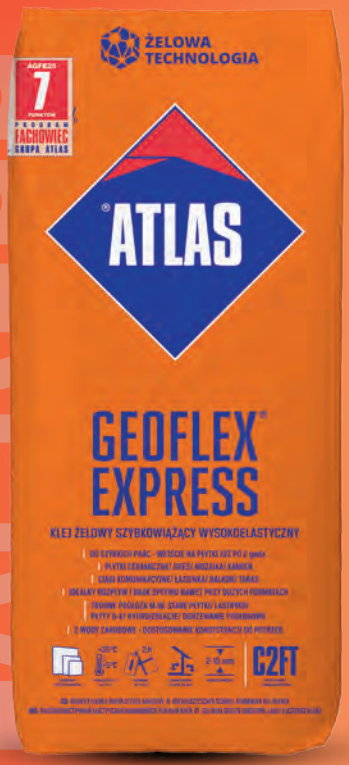
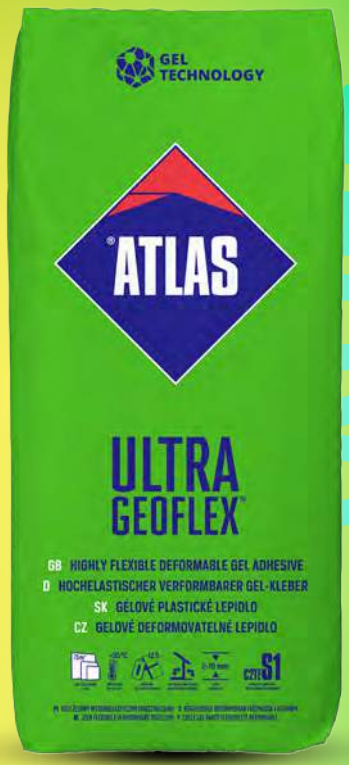
EXPRESS



ULTRA



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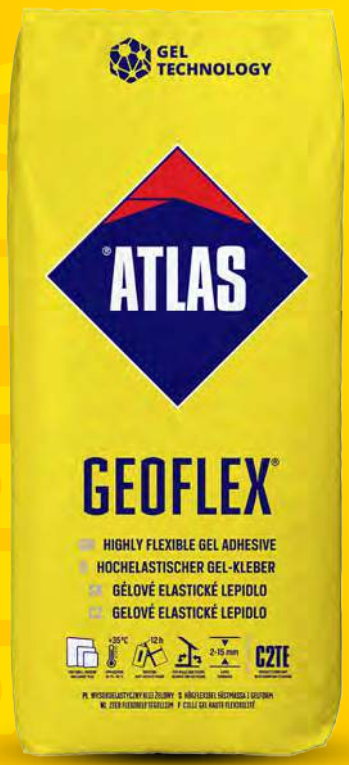

WHITE

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