SMP-300®

PREMIUM WATERPROOF AND AIRTIGHT ELASTIC COATING BASED ON INNOVATIVE POLYMER TECHNOLOGY.



PRODUCT DESCRIPTION

Premium waterproof and airtight elastic coating based on innovative polymer technology.

FIELD OF APPLICATION

For waterproofing of cracks in roofs (repair), dome windows, pipe transits and other building components. For horizontal and vertical applications and suitable for sealing and protecting a wide variety of materials, such as concrete, metal, stone, wood, zinc, PVC, EPDM (always test in advance). Excellent for both interior and exterior applications (basements, terraces, balconies & roofs) including gutters, shower basins, conduit ducts, floor seams, expansion joints, window frame joints and ground level items. Also suitable as a waterproof layer in damp environments such as bathrooms. Perfect for airtight sealing of the building envelope from the outside and inside. Meets airtightness requirements according to EN 12114 and EN 1026. Not suitable for PE, PP, PTFE and non-treated Bitumen surfaces and not suitable for applications under permanently standing water.

PROPERTIES

· 100% waterproof & airtight
· Can be applied on moist surfaces
· Superior adhesion
· Weather & UV resistant
· All (construction) materials & surfaces
· Does not shrink
· Permanent elasticity (>250%)
· In & Outdoor
· Ready to use
· Easy to apply with cartridge gun
· Paintable & plasterable **
· Protects metals for corrosion
· Free of bitumen, isocyanates and solvents

CERTIFICATES & STANDARDS

Certificates	
CE	Products and systems for the protection and repair of concrete structures. Surface protection systems for concrete. (EN 1504-2)
UK CA	Products and systems for the protection and repair of concrete structures. Surface protection systems for concrete (EN 1504-2).
GEV-EMICODE EC 1 PLUS very low emission	EMICODE: Classification system (GEV) of emission properties for construction products in indoor areas. EC-1 Plus (Very low emission Plus)

Standards	
EN 1026	Windows and doors - Air permeability: completely airtight.
EN 1027	Windows and doors – Watertightness: completely watertight.
EN 12114	Thermal performance of buildings - Air permeability of building components and building elements: completely airtight

PREPARATION

Working Conditions: Only use above +5°C.
Surface Requirements: SMP-300® can be applied on moist surfaces, however avoid puddles of water. New concrete structures need to dry for at least 28 days.
Preliminary Surface Treatment: Remove loose cement and dirt with a hand brush and make the surface free of dust. Surfaces must be dry, clean and free of dust and grease.
Tools: Cartridge gun, GRIFFON Wipes

Our advice is based on extensive research and practical experience. However, in view of the large variety of materials and the conditions under which our products are applied, we assume no responsibility for the results obtained and/or any damage caused by the use of the product. Nevertheless, our Service Department is always at your disposal for any advice needed.

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APPLICATION

Coverage: ± 5 m at Ø 10 mm

Directions for use:

Apply the coating with a cartridge gun, spread out preferably within 20 - 30 minutes using a spatula or similar tool.

Stains/residue: Uncured residues can be cleaned by using GRIFFON Wipes or Thinner. Cured residues can only be removed mechanically.

Advice: Always ensure a layer thickness of at least 1.5 mm (Waterproofing) and 1.0 mm (Airtight Constructions) after curing (wet=dry). For large gaps, connecting joints or seams in for example partition walls suitable back padding is essential. Then first use Griffon HBS-200® Flex Foam. ** Can be painted after full curing with both acrylic and alkyd paints. The curing time may be longer with alkyd paints. Always test in advance. The adhesion of stucco and tile adhesive to the coating can be improved by surface-enhancing quartz primer (Primer for non-absorbent surfaces).

Points of attention: Not suitable for applications under permanently standing water. Coating can withstand light rain after 30 minutes and heavy rain after 50 – 60 minutes. Completely waterproof after 12 hours, depending on relative humidity, temperature and surface. Take into account longer curing times at lower temperatures and lower humid weather conditions. Can be applied on bitumen treated with slate. Do not use coating on non treated bitumen roofs as the coating can discolor or detach in time. Always ensure the required minimum layer thickness to be able to provide permanent mechanical resistance. If a joint sealant is used in combination with SMP-300® coating, we strongly recommend to use a neutral silicone or SMP sealant, for example Griffon S-200 or Poly Max® Sealant All Joints, to prevent discoloration of the sealant. Not suitable for PE, PP, PTFE and non-treated Bitumen.

TECHNICAL SPECIFICATIONS

100% modulus:	0.4 MPa
Chemical base:	SMP Polymer
Cure rate:	3 mm/24h
Density approx.:	1.46 g/cm^3
Dilute:	Do not dilute.
Drying/Curing time approx.*:	12 hours
Elasticity:	Good
Elongation of rupture:	>250 %
Filling capacity:	Very good
Flexible:	Yes
Hardness (Shore A):	30±5
Minimum application temperature:	5 °C
Maximum application temperature:	40 °C
Minimum temperature resistance:	-40 °C
Maximum temperature resistance:	100 °C
Moisture resistance:	Very good
Open time approx.:	60 minutes
Paintability:	Good
Shear strength:	100 N/cm^2
Skinover time:	60 minutes
Solid matter approx.:	100 %
Tensile strength (N/cm^2) approx.:	100 N/cm^2
UV resistance:	Good
Viscosity:	Thixotropic
Water resistance:	Very good

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Skin Formation Time (in min.)	10°C	20°C	30°C
30%RH	135 min	80 min	50 min
60%RH	120 min	60 min	40 min
90%RH	105 min	50 min	30 min
Minimum Application temperature is +5°C			

Curing Depth (in mm) after 24 hrs	10°C	20°C	30°C
30%RH	1	3	6
60%RH	1,8	4	6
90%RH	3	5	6

Curing time = tack free time (in hrs)	10°C	20°C	30°C
30%RH	72	30	12
60%RH	60	24	8
90%RH	48	18	7

* Curing time may vary depending on a.o. surface, product quantity used, humidity level and ambient temperature.

STORAGE CONDITIONS

Shelf life: At least 15 months after production.
Properly sealed cartridge should be stored in a dry, cool location at temperatures between +5 °C and +25 °C. Shelf life: At least 15 months in unopened package. Opened packaging reduces the shelf life.
Limited shelf life after opening.

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