SMP-300®

ELASTIC WATERPROOF AND AIRTIGHT COATING BASED ON INNOVATIVE SMP-TECHNOLOGY



PRODUCT DESCRIPTION

Elastic waterproof and airtight coating based on innovative SMP-technology.

FIELD OF APPLICATION

For sealing, protecting and repairing roofs, walls, cracks, joints, ducts and connections. Excellent adhesion (without primer) on a wide variety of materials, such as concrete, metal, stone, wood, zinc, PVC and EPDM (test in advance). Can be applied on horizontal and vertical surfaces and suitable for indoor and outdoor applications, such as sealing ducts, floor seals, expansions joints, wall-window frame connections and below ground level structures. Also suitable for waterproofing under tiles in damp environments such as bathrooms. Perfect for airtight sealing of the building envelope. Airtightness has been tested 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 and self-leveling
· Permanent elasticity (>250%)
· In & Outdoor
· Ready to use
· Easy to apply with brush, roller or spatula
· 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 and grease.
Tools: Brush or paint roller. GRIFFON Geotextile, 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: Airtight constructions: 1,3 - 1,5 kg/m2 at a layer thickness of 1.0 mm. Waterproof constructions: 2,0 - 2,3 kg/m2 at a layer thickness of 1.5 mm. Coverage can vary according to the roughness of the substrate.

Directions for use:
Before pouring the sealant into the bucket, gently knead the bag to mix the coating. For large surfaces, you can also pour the coating directly onto the surface from the aluminium bag. Apply in 1 (Airtight Constructions) or 2 (Waterproofing) layers. Apply a first layer to the surface by brush or roller. Use GRIFFON GeoTextile for seam, crack and gap-bridging applications. Press the GeoTextile into the wet layer until it is completely saturated with the coating. Apply a second layer SMP-300® within 1 hour (or at least before skin formation occurs) on to the GeoTextile, or after complete curing of the first layer (approximately 6 - 8 hours*). If desired, sprinkle slate chips in the still wet layer to obtain an aesthetic whole of the entire roof.
* Coating cures by humidity and moisture in the substrate.

Stains/residue: Uncured residues can be cleaned by using GRIFFON Wipes or a solvent-based cleaning agent. 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). At temperatures between 0°C - 5°C, place the closed aluminum bag in a bucket with warm water beforehand to improve workability. For gaps, connecting joints or seams > 5mm in for example partition walls, first use Griffon HBS-200® Flex Foam or PE joint-filling cords. ** Can be painted after full curing with both acrylic and alkyd paints. The drying time of alkyd paints may be extended. 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.:	1.44 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:	Thick liquid
Water resistance:	Very good
Water vapour diffusion Sd value:	2.29 m
Mechanical resistance:	Average (Incidental walkability in case of maintenance)

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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 packages 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. An opened package has a reduced shelf life.
Limited shelf life after opening.

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