



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 below tiles in damp environments such as bathrooms and swimming pools. Perfect for airtight sealing of the building envelope from the outside and inside. Meets airtightness requirements according to EN 12114 and EN1026.

PROPERTIES

- 100% waterproof & airtight
- Can be applied on moist surfaces
- Superior adhesion
- Weather & UV resistant
- All (construction) materials & surfaces
- Does not shrink & self-leveling
- Permanent elasticity (>250%)
- In & Outdoor
- Ready to use
- Easy to apply with brush, roller or spatula
- Paintable & plasterable
- Protects metals for corrosion

- Resistance to chlorine and salt water
- Free of bitumen, isocyanates and solvents

CERTIFICATES & STANDARDS

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

Standards

| | |
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| | Windows and doors - Air permeability: completely airtight. |
| | Windows and doors - Watertightness: completely watertight. |
| | 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: 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 film thickness of 1.0 mm. Waterproof constructions: 2,0 - 2,3 kg/m² at a film thickness of 1.5 mm. Coverage can vary according to the roughness of the substrate.

Directions for use:

Stir manually until a homogenous color is obtained. Open tin and apply a first layer to the surface by brush. 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 tear-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 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: 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 untreated or raw bitumen roofs as the coating can discolor or detach in time. Applied coating may deteriorate prematurely if minimum required layer thickness is not used. 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® Fix & Seal, to prevent discoloration of the sealant. Not suitable for PE, PP and PTFE.

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. Opened packaging reduces the shelf life.

Limited shelf life after opening.

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