

TECHNICAL DATA SHEET

FOME FLEX HYDRO GUARD COATING



Quick-drying, one-component, solvent free, ready to use, SMP based liquid waterproofing coating. It is intended for sealing and waterproofing on horizontal and vertical surfaces, can be used indoor and outdoor. Coating is frost, UV and chemical resistant after curing, rain resistant after 2 hours of application. It is resistant to temperatures ranging from -40°C to +80°C. Product has excellent adhesion to many base materials even without a primer, also good adhesion to old and damp surfaces.

BENEFITS:

- Indoor & Outdoor
- Very elastic
- Quick drying
- Ready to use and easy to apply
- Temperature resistance from -40 °C to +80 °C
- Resistant to rain 2 hours after application (at 23 °C and 50%RH)
- Resistant to a wide specter of chemicals
- Resistant to UV, atmospheric influences and frost
- Vapor permeable
- Good bridging over cracks
- Environmentally friendly, free of solvent and isocyanates
- Overpaintable

APPLICATION:

- Hydroinsulation of flat roofs
- Hydroinsulation of foundation and basement
- Hydroinsulation of terraces and balconies
- Sealing of gutters, pipe sleeves, skylights and domes, various openings, chimney border strips
- Sealing leakages, cracks on roofs and walls
- Hydroinsulation of indoor and outdoor interfaces
- Wood construction protection
- For bonding (e.g.: floor covering, marble, stone)
- Short-term few mm. width repair in case of rain or running water
- Very good adhesion to surfaces: concrete, stone, marble, steel, copper, painted steel, aluminium, wood, glass, ceramics, styrofoam. Also adheres to polyester and aged bitumen, but bitumen may cause a change of coating colour.

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NORMS / ATESTS / CERTIFICATES:

TESTING RESULTS ACCORDING TO SIST EN 1504-2:2004

Products and systems for protection and repair of concrete structures – part 10:
Quality and compliance assessment — part 2: Concrete surface protection systems

Relative diffusion resistance of water vapour (Sd): 5.11 m

[according to SIST EN ISO 7783:2012 — request for Grade II: $5 \text{ m} \leq Sd \leq 50 \text{ m}$]

Water mobility (W): 0.008 kg/m²h^{1/2}

[according to SIST EN 1062-3:2008 — request: $W \leq 0.1 \text{ kg/m}^2\text{h}^{1/2}$]

Relative diffusion resistance CO₂ (Sd): 62.3 m

[according to SIST EN 1062-6:2003 — request: $Sd > 50 \text{ m}$]

CE

TECHNICAL DATA:

Uncured	
Base	Silane modified polymer
Appearance	Liquid (low viscosity)
Colour	Grey
Curing mechanism	With moisture
Specific weight	1.4–1.5 g/cm ³
Skin formation time (23 °C/50%RH)	20–40 min.
Drying time at 23 °C/50% RH (1mm layer)	3 hours
Application temperature	+5 °C - +40 °C
Consumption (1mm layer)	1.4 kg/m ²
Number of layers	min. 2
Min. thickness of coating	2 mm.
Cured	
Hardness Shore (A ISO 868)	25–30
Volume change (ISO 10563)	< 3%
Elongation at break (ISO 37 part 1)	280–380%
Tensile strength (ISO 37 part 1)	1.0–1.2 N/mm ²
Tensile strength 100% (ISO 37 part 1)	0.6–0.7 N/mm ²
Waterproofness (DIN 1048)	Waterproof
Treading	P2 (constant)
Temperature resistance	-40 °C - +80 °C

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ADHESION TO SURFACES:

Material	Cohesion	Material	Adhesion
Steel	5	PVC plastic	3
Copper	5	Polyester	2
Painted steel	5	Bitumen (aged)*	1
Polycarbonate	5	Styrofoam	3
Wood	5		
Glass	5		
Ceramics	5		
Aluminium	5		
Concrete	5		
ABS plastic	5		

Values: 1 - poor, 5 - excellent
***Bitumen may cause membrane painting**

METHOD OF USE:

Prior to application, read safety instruction presented in MSDS.

Surface preparation

The surface should be clean, smooth, free of grease, mechanical damage and other particles that reduce adhesion. The coating can be used without priming and on damp surfaces, but not in the presence of still water or underwater.

Application

Mix the product well before use, do not dilute. Apply the coating with a brush or roller. Apply the first coat and let it dry for 3 hours (at 23°C, 50%RH) until it fully cured. Then apply the subsequent layer in a perpendicular pattern to the previous one. Coating should be applied in two layers until total thickness of 2 mm. After 12 hours (at 23°C, 50%RH), the coating should be dry and ready for further work. Low temperatures and lack of adequate air circulation prolong the drying time of the coating. Each layer that has just been done should be protected from rain and frost for at least 2 hours.

When waterproofing flat roofs or other large areas, it is recommended to submerge non-woven felt (felt quality 120 g/m²) to the first layer of the uncured liquid coating. When laying felt on larger surfaces, it is recommended that felt layers cover each other at least 3–5 cm. Reinforcements for interior and exterior angles, as well as for outlets, must previously be carved out of felt and submerged into the first layer of the uncured coating, before the felt is placed on main horizontal and/or vertical surfaces.

Cleaning

Clean the tools and uncured coating with FOME FLEX Profi wipes or alcohol, after curing – mechanically.

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REMARKS / RESTRICTION:

Coating can not be used during rain or frost. It is not suitable for use on surfaces where still water has been present for a long time. Not suitable for use on foundations where the nearby soil has very poor permeability and stagnant water accumulates. The coating has poor adhesion to powder-coated sheet metal, requiring a special siloxane and silane solvent primer. Drying time depends on type of substrate, temperature and humidity. All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on product hardening conditions (c.a., ambient, surface temperature, quality of used equipment and skills of person applying the product).

TRANSPORT / STORAGE:

Product is packaged in 1 kg., 3 kg. and 5 kg. buckets. Store up to 15 months from the production date indicated in original sealed packaging at +5 °C to +30 °C. Protect from frost and direct sunlight. Transport at a temperature of not less than 5 °C.

SAFETY AND HEALTH PRECAUTIONS

For detailed information find Material Safety Data Sheet available at producer upon request. All written or oral information, recommendations and instructions are given according to our best knowledge, tests and experience, in good faith and in compliance with manufacturer's principles. Each user of this material will make sure in every possible way, including verification of the final product in proper conditions, about suitability of the supplied materials for their intended purposes. The manufacturer is not liable for any losses incurred due to inaccurate or erroneous application of the manufacturer's materials.