

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 3 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 3 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 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 of stone, brick, wood, metals and etc.
- Short-term few mm. width repair in case of rain or running water
- The liquid coating has excellent adhesion to numerous surfaces such as concrete, cement screed, glass, ceramic tiles, wood, metal (aluminium, steel, zinc, copper, brass) and polyester. However, performing an adhesion test before its use is recommended.

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NORMS / ATESTS / CERTIFICATES:

HYDRO GUARD - coating is in accordance with the requirements of the standard EN 1504-2:

Products and systems for the protection and repair of concrete structures - Surface protection systems for concrete.

It meets the requirements for the principles:

-2.2 Moisture control, and

-8.2 Increasing resistivity,

listed in the EN 1504-9 standard: Products and systems for the protection and repair of concrete structures - General principles for the use of products and systems.

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GENERAL DATA	
Chemical base	Hybrid MS polymer
Appearance	Liquid (low viscosity)
Curing mechanism	Humidity from air
Colour	Grey
Consumption (1mm layer)	1,4 kg/m ²
Number of layers	min. 2
Min. thickness of coating	2 mm.

DATA FOR FRESH MIXTURE		
Characteristic	Testing method	Declared value
Density, 20 °C	EN ISO 2811-1	1,46 - 1,56 g/ml
Skin formation time (23 °C, 50 % RH)		20 - 40 min.
Curing time (23 °C, 50 % RH)		approx. 3 hrs (1 mm layer thickness)
Application temperature		+5 °C to +40 °C

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DATA FOR CURED WATERPROOF MEMBRANE		
Hardness Shore A	EN ISO 868	25 - 30
Loss of volume	EN ISO 10563	< 3 %
Elongation at break	ISO 37, rod 1	280 - 380 %
Tensile strength	ISO 37, rod 1	1,0 – 1,2 N/mm ²
Modul E-100	ISO 37, rod 1	0,7 – 0,9 N/mm ²
Temperature resistance		-40 °C to +80 °C

DATA FOR CURED WATERPROOF MEMBRANE			
Characteristic	Testing method	Standard requirements EN 1504-2	Achieved value
Adhesion strength (Pull-off test), at 28 days and 50% RH	EN 1542	≥ 0,8 (0,5) N/mm ² (without trafficking)	0,9 N/mm ²
Permeability to water vapour	EN ISO 7783-1 EN ISO 7783-2	Class I: S _D < 5 m (permeable to water vapour)	0.68 m
Capillary absorption and permeability to water	EN 1062-3	W ≤ 0,1 kg/m ² *h ^{0.5}	0,01 kg/m ² *h ^{0.5}
Crack-bridging ability	EN 1062-7	Class A1 to A5	3,1 mm Class A5 (23°C)
Characteristic	Testing method	Standard requirements EN 14891	Achieved value
Waterproofing - permeability to water under pressure (1.5 bar, 7 days)	EN 14891, A.7	No water penetration	No penetration
		Weight gain ≤ 20 g	1,7 g

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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 3 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.

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).

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TRANSPORT / STORAGE:

Product is packaged in 1 kg., 3 kg. and 7 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.