

TECHNICAL DATA SHEET

FOME FLEX RAPID HYDRO DEFENCE MASTIC

A quick-drying liquid polymer-bitumen coating intended for renovation of bituminous roof coverings and for making waterproof coatings. Creates a seamless and flexible waterproof membrane with increased UV resistance up to 5 years. Quick drying and rain resistant just in 2 hours. Can be used on damp surfaces. Safe for polystyrene. Safe for the environment, solvent-free - non-flammable, odorless. The product of the asphalt-latex type anionic emulsion.



BENEFITS

- quick drying
- high performance
- compatible with bituminous and mineral substrates and styrofoam
- environmentally friendly
- can be applied on humid substrates
- ready to use
- high UV resistance
- creates permanent elastic joints which bridge the cracks

APPLICATION

- old roof felt maintenance & refurbishment
- applying waterproofing coatings on horizontal and vertical surfaces
- protecting construction elements from moisture influence

NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- PN-B-24002:1997
- PN-B-24002:1997/Ap1:2001

TECHNICAL DATA SHEET

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Colour	Value
Black-brown, black after hardening	+
Appearance	Value
Semi-fluid consistency	+
Uncured - tested at 23 °C and 50% relative humidity	Value
Density [g/cm ³]	0,9 - 1,1
Drying time [min]	30 - 120
Resistance to rain after 2 h, class [h]	4R
Solid Content [%]	50 - 54
Viscosity 10 RPM, 25°C, spindle 5 [mPas]	10000 - 15000
Consumption (for 1 layer) [kg/m ²]	0,3 - 0,4
Cured - tested after 2 weeks at 23 °C and 50% relative humidity	Value
Coating permeability under pressure 1000 mm/48h layer thickness [mm]	≥0,35 mm
Coating permeability under pressure 6000 cm/48h layer thickness [mm]	≥1,0 mm
Temperature resistance [°C]	-30 - +90
Cured - tested after 2 weeks at 4 °C and 50% RH	Value
Modulus at 100% elongation (temp. 4°C) [MPa]	0,3 - 0,4
Elongation at break (temp. 4 °C) [%]	100 - 120
Stress at break (temp. 4 °C) [MPa]	0,15 - 0,2
Crack-bridging, layer thickness 2 mm (temp. 4 °C) [mm]	≤1,5
Conditions of application	Value
Application temperature [°C]	+5 - +35
Chemical resistance	Value
Water (the product is not designed for permanent immersion under water)	+
Adhesion to surface	Value
Brick	+
Concrete	+
Aluminium	+
Galvanized sheet	+
Raw wood (pine)	+
Extruded polystyrene	+
Expanded polystyrene	+
Bituminous paper	+
Bituminous shingless	+
Clinker tile	+
OSB board	+

TECHNICAL DATA SHEET

METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

Surface preparation

Before application dust the substrate.

Substrates should be free from grease, oil and rust.

If necessary, prime the substrate.

The substrate must be even, without cavities, sticking parts or damages.

Remove loose particles, existing damages and cracks fill with Asphalt-Rubber Emulsion Fast Filler.

Smooth the surfaces in order to increase the adhesiveness.

Humid substrates are allowed yet standing water should be avoided.

Freshly applied coating must be protected from rain and frost.

Product preparation

Stir well before use.

Application

The product can be applied with brush, roller or by airless spraying. Recommended parameters: 519 nozzle, capacity 2,3 l/min (for larger works recommended above 4 l / min), nozzle with a hole of 0.019" (0.48 mm), 180-190 bar pressure.

Freshly applied coating must be protected from rain and frost.

Clean the tools before use.

ROOFING MAINTENANCE

Apply on prepared surface one layer of product with thickness 0,3 - 0,4mm.

RENOVATION COATINGS ON FLAT ROOFS

In order to obtain a watertight coating it is recommended to apply the product in at least two layers. For small cracks and unstable substrates or vertical penetrations, use a polyester fleece of approx. 80 g/m². The fleece should be embedded in the first layer and thoroughly levelled with a brush or roller and allowed to dry completely. Once the layer with the reinforcing fleece is completely dry, apply the second layer crosswise to the first layer.

In places particularly exposed to sun operation, the coating can be protected with mineral granules.

WATERPROOF INSULATIONS ACCORDING TO PN-B-24002

Apply on prepared surface two layers of product with thickness 0,3 - 0,4 mm each.

Apply the second coat after the first one has dried out, in such a way as not to damage it.

Total consumption for two layers is ca. 0,7 kg/m².

Works after completion of application

Clean the tools in a soap and water solution. Clean mechanically after hardening.

Remarks / restriction

Mastic can not be used during rain or frost.

Drying time depends on type of substrate, temperature and humidity.

Products is not intended both for food contact and medical applications. The products has not been tested nor submitted for acceptance tests and medical applications pharmaceutical.

Product is not dedicated to use on sensitive surfaces e.g. copper and its alloys as it may cause discoloration.

Bitumen products are incompatible with cement milk (laitance) for adhesion. For using Fome Flex Rapid Hydro Defence products under the tiles, use the adhesion promotion primer (BetonKontakt).

REMARKS / RESTRICTION

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).

TECHNICAL DATA SHEET

TRANSPORT / STORAGE

Product is packaged in 18 kg and 9 kg pails. Store up to 18 months in original sealed packaging at +5 °C to +30 °C. Protect from frost and avoid temperatures above 35 °C and direct sunlight. Store and 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.