

TECHNICAL DATA SHEET

Item number: 0803-417-XXXX

Product name: ALMACOAT FLOOR

ALMACOAT FLOOR

Description: Spray applied polyurea-polyurethane hydro-insulation coating.

ALMACOAT FLOOR is high quality two-component solvent-free coating used on metal surfaces (steel, aluminum), concrete (or other cement based and construction), wood or polyurethane thermal insulations. ALMACOAT FLOOR is universal seamless coating that cures fast ideal for places where protection against water and high mechanical resistance are required.

RECOMMENDED USE

ALMACOAT FLOOR coating is recommended for interior and exterior use. It will serve best as hydro-insulation for foundations, basements, balconies, terraces, green roofs. It is also recommended as repair system for bituminous roof coverings (tar-board), overflow tanks and geofabric. ALMACOAT FLOOR coating is not UV resistant, therefore when durable color is required it is necessary to protect it with an appropriate coating.

TECHNICAL PROPERTIES

Product characteristics (part A-ISO and B-Polyol)

	Standard value	Method
Viscosity – part A, B (25°C)	1000 mPas, 600 mPas	EN ISO 2555 (Brookfield)
VOC	0%	-
Density – part A, B (25°C)	1.11 g/cm ³ , 1.05 g/cm ³	EN ISO 1675
Gelation time (18°C)	3-5 seconds	-
Dry-to-touch (18°C)	6-8 seconds	-
Recoat window	1 to 24 hours	-
Mixing ratio	1:1 (by volume)	-
Recommended thickness	1.5 – 2.0 mm	-
Coverage	Approx. 1.1 kg/m ² at 1mm thickness	-

Physical properties of the coating

	Standard value	Method
Stretch resistance after 24h	Min. 16 Mpa	EN ISO 527
Break elongation after 24h	Min. 4000%	EN ISO 527
Stretch resistance (max)	22 Mpa	EN ISO 527
Break elongation (max)	450%	EN ISO 527
Surface adhesion (steel)	>5 Mpa	EN ISO 4624
Surface adhesion (concrete)	Break in concrete	EN 1542
Shore hardness	96A, 45D	EN ISO 868
Wear and abrasion resistance (Taber index H22, 1000g)	<60 mg	ASTM D4060
Bridging cracks 3.2 mm	>70 m H ₂ O pole.	ASTM D5385
Water absorptivity	Up to 1%	-

INSTALATION

ALMACOAT FLOOR coating must be applied on properly prepared vertical and horizontal surfaces. Concrete surfaces must be clean, free from dust, oil, grease, fluid bituminous substances and detergents. Concrete humidity must not exceed 5%. When applied on new concrete surfaces lime milk should be removed by sandblasting or water blasting. Steel surfaces must be degreased and mechanically cleaned (to Sa ½ cleanliness degree). Concrete surfaces (or other cement based) must be primed with two-component epoxy primer. It is recommended to use one or two-component polyurethane primer on steel surfaces. ALMACOAT FLOOR is available in 200l drums. Part A and B are mixed by volume ratio of 1:1. ALMACOAT FLOOR should be spray applied with high pressure system such: GRACO REACTOR EXP2 or HXP3.

Spraying parameters:

- Part A: 65-80°C
- Part B: 65-80°C
- pressure: 160-200 bar
- hose temperature: min 65°C
- ambient temperature: -20 to +50°C
- humidity: max 85%
- surface temperature: 3°C above dew point

Coat thickness is arbitrary (from 0.5mm to a couple of centimeters) and depends from the requirements of the coating. In most cases 1.5-2.0mm thickness is sufficient to provide good chemical, mechanical and anti-corrosion resistance. Part B (polyol) consists of a pigment which may sediment in storage. Stir with a mixer before use. Do not thin. For machine cleaning: use Mesamoll plastifier or polyurethane solvents (e.g. xylene). ALMACOAT FLOOR spills can be cleaned with commercial polyurethane solvents (e.g. xylene). ALMACOAT FLOOR coating will change color within a couple to several weeks from application

due to UV. Color change does not influence mechanical, hydro-insulation and anti-corrosive properties of the coating Please contact manufacturer before applying on surface subject to UV in order to select appropriate protective coating.

Chemical agents resistance

ALMACOAT FLOOR hydro-insulation is resistant to diluted lye, acids, alcohol, detergents, fuel and other petroleum products. Please contact manufacturer regarding other chemical agents.

Storage

Store in temperatures from 10°C to 35°C. When storing in temperature below 10°C isocyanate ingredient can crystallize! When solids are noticed in the product it must be heated to 40-50°C for 24h. Before use of ALMACOAT FLOOR stir Part B until uniform color is achieved.

Safety

Please refer to product label and MSDS's before using ALMACOAT FLOOR. When using ALMACOAT FLOOR wear protective clothing, goggles and a mask (A1P2 filter type).

SHELF LIFE: Part A –6 months, Part B – 12 months from the date of production; both in original tightly sealed container. After the given time periods – products may be used after laboratory tests.

WARNING! This product is designed for professional use in the given industry. Detailed information regarding product safety can be found in the MSDS.