

TECHNICAL DATA SHEET

Item number: 0803-415-XXXX

Product name: ALMACOAT FLOOR SL

ALMACOAT FLOOR SL

Description: Polyurea-polyurethane hydro-insulation coating for manual application (self-leveling).

ALMACOAT FLOOR SL is a premium two-component solvent-free coating used on various surfaces: wood, concrete, steel, aluminum, PCC mortar and concrete screed. The ALMACOAT FLOOR SL is a flexible, fast-curing coating applied with a float. When cured it produces a watertight, seamless coat and protects against moisture and humidity.

RECOMMENDED USE

ALMACOAT FLOOR SL is recommended for both exterior and interior use, inside and outside of buildings. Ideal for hydro-insulation of foundations, basements, balconies and terraces, flat and green roofing.

Almacoat Floor SL is also suitable as a repair system for other polyurea-polyurethane coatings ALMACOAT.

TECHNICAL PROPERTIES

Product characteristics (A-ISO and B-Polyol)

	Standard value	Method
Viscosity part A, B (25°C)	7000 mPas, 500 mPas	EN ISO 2555 (Brookfield)
Volatile compounds	0%	-
Density A, B (25°C)	1.10 g/cm ³ , 1.05 g/cm ³ ,	EN ISO 1675
Pot life (20°C)	9 min	-
Flow distribution time (20°C)	20 min	-
Recoat window *	2h-18h	-
Application temperature	+10°C to+30°C	
Mixing ratio A:B	100:13 by weight	-
Recommended thickness	2 mm	-
Coverage	2 -2.4 kg/m ²	-

* the parameters depend on the surrounding conditions (temperature, humidity) and may differ from the suggested values

Physical properties of the coating

	Standard value	Method
Stretch resistance	13 MPa	EN ISO 527
Break elongation	650%	EN ISO 527
Surface adhesion (steel)	>5 MPa	EN ISO 4624
Surface adhesion (concrete)	break in concrete	EN 1542

Shore hardness	80A	EN ISO 868
Crack bridging (-20°C)	Class A5 (>2.5 mm)	EN 1062-7
Water absorptivity (7 days)	up to 3.5%	-
Application temperature	-30°C to +70°C	-

Surface preparation

Apply the ALMACOAT FLOOR only on properly prepared vertical and horizontal surfaces. Concrete surfaces must be clean, free of dust, oil, grease, fluid bituminous substances and detergents. Any cracks and imperfections in the surface should be repaired before priming. Concrete humidity must not exceed 5%. When applied on new concrete surfaces, lime milk should be removed with a grit blasting machine or a concrete grinder. Steel surfaces should be degreased and cleaned by compressed-air blasting (down to SA ½ cleanliness degree). The anti-corrosive primer Almacoat Primer Steel is recommended for steel, aluminum and stainless steel.

Concrete or other absorbent surfaces must be primed with two-component epoxy primer Almacoat Primer Concrete or Almacoat Primer Concrete Fast. Double prime for very porous concrete surfaces. It is possible to extend the recoat window for Almacoat Floor SL by saturating the wet coat of epoxy primer with dried silica sand of 0.4 – 0.8 mm. The external edges of the surface should be beveled; the internal edges and the corners should be covered (with cement mortar or cement-resin mortar).

Surface preparation and application

ALMACOAT FLOOR SL is available in 8-kg packaging. Part B contains the pigment and should be stirred thoroughly before use. Using a low-shear mixer stir part A then add part B while continuing to stir.

Parts A and B are mixed in weight ratio of 100 : 13.

Continue mixing for 1 minute until blended into a uniform color. The mixture should be immediately applied on the surface and spread with a float or a rubber spatula. Each coating portion should be vented with a spiked roller immediately after application. All the above steps should be performed within 20-25 min from the moment the parts are mixed. After that time, the flow distribution of the mixture becomes limited. Almacoat Floor SL should not be applied at the temperature over +30°C or in full sunlight.

The self-leveling mixture Almacoat Floor SL is also suitable for vertical surfaces up to 1m high (mopboards, pedestals, firewalls, etc.). Float up repeatedly until the material stops flowing. Almacoat Floor SL becomes rainproof after 40 minutes and foot traffic can be allowed after approx. 1.5h.

Full curing is reached after 72h.

Recommended cleaning solvents numbers: 8010, 8002, 8016. ALMACOAT FLOOR SL coating will change its color due to UV within a couple hours, days or weeks after application. Color change does not influence its mechanical or hydro-insulation properties. To prevent the color from changing, apply ALMACOAT UV PROTECT.

Chemical agents resistance

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

Storage

Store at temperatures from 10°C to 30°C. When storing at temperatures below 10°C, the isocyanate ingredient may crystallize! When solids appear in the product, it should be heated up to 40-50°C for 24h. Before use of ALMACOAT FLOOR, stir part B until uniform color without smudges or stains.

Safety

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

SHELF LIFE: part A – 9 months, part B - 9 months from the production date and in the originally sealed container. After the expiry date the product might be re-approved after suitable laboratory tests.

The information included in the MSDS should not be considered complete regarding the technology of polyurea-polyurethane product application. In the case of insufficient information in the MSDS or any need for clarification, please contact the Alma-Color technical department. The manufacturer keeps the right to modify the MSDS any time without prior notice. Before using the product, the user should request the updated documentation from the manufacturer.

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