

Technical Data Sheet

ACE ALIFLEX

DESCRIPTION

Two-component polyurethane enamel based on hydroxylated acrylic resins and aliphatic isocyanate, gloss finish, with high chemical and abrasion resistance. Provides maximum hardness and excellent flexibility. Excellent gloss and colour retention under weathering and UV exposure.

APPLICATIONS

- Topcoat layer for aromatic polyurea systems to provide UV protection and colour stability.
- Swimming pool finishing coat.
- Coating of any element (tanks, structures, doors, pipes, gates, etc.) where a combination of resistance, aesthetics and durability is required.
- Provides high resistance, aesthetic finish and cost efficiency due to its long service life, offering protection against UV radiation.
- Suitable for flooring applications in rural, marine or industrial environments.

TECHNICAL DATA

- Colour: Any RAL colour (approximate match).
- Finish: Gloss
- Density: 1.34 ± 0.05 kg/L
- Volume solids: $66-70\% \pm 1\%$ depending on colour
- Pot life: >4 hours at 20°C
- Dust dry time: 45 minutes at 20°C and 60% RH
- Touch dry time: 4 hours at 20°C and 60% RH
- Through drying: 6-8 hours
- Full cure: 7 days
- Overcoating time: Minimum 16 hours, maximum 48 hours at 20°C and 60% RH. After this time, sanding between coats is required.

The membrane must not be subjected to permanent water immersion for at least 7 days.

- Mixing ratio: A : B = 4 : 1 parts by weight
- Coverage: 5 – 6 m²/kg depending on substrate roughness and irregularities.

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CHARACTERISTICS OF THE DRY FILM

- High adhesion and good resistance to rubbing and abrasion.
- Excellent resistance to light and weathering.
- Excellent resistance to water, detergents and oils.
- Hard and elastic. High flexibility: 2 mm on conical mandrel according to ASTM D-5

APPLICATION

UNPAINTED IRON OR STEEL SURFACES

Remove any rust and rolling scale residues using appropriate scrapers or wire brushes. Degrease and clean the surface of dust and dirt, then sand carefully until all rust residues are removed. Sandblast to SA 2½.

Then apply one or two coats of ACE EPOPRIMER. After the specified drying time, apply one or two coats of ACE ALIFLEX.

PAINTED IRON OR STEEL SURFACES

Remove paint layers that are not perfectly adhered and then proceed as indicated for unpainted iron surfaces.

GALVANIZED STEEL AND ALUMINIUM SURFACES

Degrease and clean the surface.

Apply one coat of ACE EPOPRIMER.

After the specified drying time, apply one or two coats of ACE ALIFLEX.

CONCRETE OR CEMENT SURFACES

Clean the surface and apply one or two coats of ACE EPOPRIMER, or apply two coats of ACE 373 PLUS directly, diluting the first coat 10–15% with POLYURETHANE SOLVENT.

For flooring applications, it is advisable to open the pores of the surface by chemical or mechanical means.

ELASTOMERIC POLYUREA OR POLYURETHANE SURFACES

Clean the surface and apply the coating on the same day as the polyurethane or polyurea application.

Once cured, lightly sand and clean the surface, then apply one coat of ACE EPOPRIMER.

After the specified drying time, apply one or two coats of ACE 373 PLUS.

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The system is supplied in two separate pre-dosed containers.

Before application, thoroughly mix the contents of Component A, then add the contents of Component B, stirring the mixture until a homogeneous product is obtained. After an induction time of 20–30 minutes, mix again before application.

METHOD OF APPLICATION

Application can be carried out using roller, brush or airless spray equipment.

Recommended thinner: Polyurethane solvent. Dilution depending on application method:

- Brush / Roller: 0–10%
- Airless spray: 0–5% depending on equipment power
- Nozzle size: 0.007" – 0.011"
- Nozzle pressure: 180 – 200 kg/cm²
- Clean the equipment as soon as possible after use using polyurethane solvent.

CHARACTERISTICS OF THE DRY FILM

Great adherence and good resistance to the abrasion.

Excellent stability to the light and UV.

It resists temperatures of up to 80°C in dry and 60°C in water.

Excellent resistance to the water, detergents and oils.

The membrane can not be in permanent contact with the water before 7 days from application.

STORAGE

The product has a shelf life of one year in its original unopened containers when stored at temperatures below 35°C.

WARRANTY AND LIMITATION OF LIABILITY

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