Polyurethane Based Self-Levelling Flexible Flooring Resin

EAN-Code
6150611464440



Description

FlexDEC® 2K Specially formulated Polyurethane based is a two component for self-leveling floor application solvent free material that upon curing produces a strong, flexible film with excellent adhesion to various surfaces.

FlexDEC® 2K may be offered in a non- combustible version FlexDEC® 2K Marine product certified for ship metal decks according to fire Testing FlexDEC® 2K the product is based on pure hydrophobic polyurethane resin plus special inorganic fillers that provide the material with excellent abrasion and chemical resistance.

FlexDEC® 2K is a non-toxic product in case of contact with food products and drinking water. It can be used indoors and outdoors.

If requested surface protection : We recommend our Full aliphatic water based matte TopcoatDEC® SF-2K product for 100% resistance to sunlight in indoor and outdoor applications.

FlexDEC® 2K Available in neutral, colorless or any color requested; please refer to the color chart.ilable in neutral, colorless or any color requested; please refer to the color chart.

Important Features

FlexDEC® 2K Available in neutral, colorless or any color requested; please refer to the color chart.

- Excellent mechanical properties, high tensile and tear strength, abrasion resistance.
- Negative hydrostatic pressure resistant.
- Inhibits fungal and bacterial growth
- Max. temperature short time shock 200°C.
- Crack bridging
- 1 to 12mm thickness in one single coat

Technical Data

Potlife :	± 30 minutes (25 °C)
Touch Drying Time :	± 8 hours (25 °C)
Walkable After :	± 18 hours (25 °C)
Light Traffic :	24 hours (25 °C)
Heavy Traffic :	± 3-4 days (25 °C)
Service Temperature :	(+5 °C to +40 °C)
Mixing Ratio :	4,5:15,5 Ratio

Features / Benefits

- Solvent free
- Non toxic
- Long pot life
- Negative hydrostatic pressure resistant.
- Temperature Resistance from -40°C up to 90°C.
- Excellent mechanical properties, high tensile and tear strength, abrasion resistance.
- Inhibits fungal and bacterial growth
- Warm water resistance 60°C - 90 °C.
- Excellent chemical resistance.
- Negative hydrostatic pressure resistant.
- 1 to 12mm thickness in one single coat
- Crack bridging

Application Areas

- Continuously flexible floors
- Industrial Floors
- Ship Decks
- Hospitals and Pharmacy floors
- Living areas and Showrooms
- Pharmaceutical Industries floors
- Food, Chemical and Pharmaceutical Industries
- Hotels, Shops and Supermarkets
- Offices,Schools and colleges
- In food and beverage industry
- Indoor Car Parks
- Refrigeration cells and Tanks
- Healthcare area floors
- Secondary containment
- Electronics store floors
- Asphalt floors

Consumption

Indicatively around 1,3 kg/m²/mm of thickness.

Verpakkingstypes

Part A 4,5kg Pail Part B 15,5kg Pail

Application Procedure

Concrete substrate conditions (standard):
- Hardness: R28 =15 MPa
- Humidity: W < 10%
- Temperature: from (+05 °C to +40 °C)
- Relative humidity: < 80%
- Remove from the floor oil, grease ,wax contaminants,cement laitance, loose particles, mold and release agents
- The application surface must be dry.
- Fill surface irregularities with adequate products. Primer must be applied on relatively fresh concrete or in cases where negative pressure may cause the material to bubble. In these cases,either apply several coats of EpoxyPRIMER® 2K our water based epoxy primer can be charged with sand as described in the respective technical data sheet.
- For substrates that need to be made stronger, the one component penetrating primer Primer® D-1K should be used.

Mixing FlexDEC® 2K

- Start mixing component A+B and use a low speed (300 rpm) electric drill until the mixture is completely homogenous.

Apply FlexDEC® 2K As Self-Leveling;

- Depending on demand, 1 to 10 mm thickness can be applied in a single coat.
- Apply undiluted with a notched trowel, squeegee or roller.
- As soon as the material is applied, use a spiked roller to remove entrapped air.

Topcoat: FlexDEC® 2K is a polyurethane system and therefore will be very low discolor when exposed to UV. For color protection, traffic/abrasion resistance as well as providing an easy clean and unique final satin finish , we recommend our Full aliphatic water-based TopcoatDEC® SF-2K product for 100% resistance to sunlight and surface scratches.

Cleaning: Clean your tools and equipment with Cellulosic thinner during the application phase.

Technical Specifications

PROPERTY	UNITS	METHOD	SPECIFICATION
Pot Life (25°C) & 55% RH	Min.	Internal Method	20-30
Viscosity (BROOKFIELD) upon mixing	cP	-	5:1
Specific weight	gr/cm^3	-	Component A (hardener): 1.20-1.30 Component B (resin): 1.25-1.35
Tack free time, at 77deg F (25°C) & 55% RH	hours	-	2-3

The Film:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max Temperature short time (shock)	°C	-	200
Hardness	Shore D	-	>60
Tensile Strength at break at 23 °C	N/mm²	-	>13
Percent Elongation at 25 °C	%	-	>70
Abrasion Resistance	Mg loss	-	60
Water Vapour Transmission	gr/m².hr	Water Method	0,8