

NEXA CRETE FC

Three-component polyurethane-cement sealer, solvent-free

Description:

Three-component, solvent-free polyurethane-cement sealer. This product is designed to withstand the harshest mechanical, chemical, and physical conditions.

It is an ideal flooring system for the food industry due to its exceptional properties, such as resistance to pressurized steam, disinfectants, and cleaning agents commonly used in the sector. It provides a satin, rough finish for interior floors.

Approved Uses

- Treatment, decoration, and protection of pavements, floors, and rehabilitation of:
 - Industrial floors.
 - Food industry floors.
 - Chemical floors.
 - Vehicular floors.
 - Shopping centers.
 - Refrigeration chambers.
 - Other applications.
 - Tratamiento Anti-estático.
 - Tratamiento Anti-slip.
 - Tratamiento Anti-bactericida.
 - Tratamiento Anti-polvo.

Approved Substrates

Sealer for NEXACRETE SELF-LEVELING sprinkled with sand.

Advantages

- Solvent-free.
- Good resistance to abrasion and impacts
- Good mechanical resistance
- Good chemical resistance
- Excellent resistance to extreme temperatures, ranging from -40°F to 194°F (-40°C to $+90^{\circ}\text{C}$)
- Maximum shock temperature: 392°F (200°C)
- Resistant to steam and hot water, from 140°F to 194°F ($+60^{\circ}\text{C}$ to $+90^{\circ}\text{C}$)
- Fully impermeable and resistant to permanent water contact, hydrolysis, and microorganisms
- Once cured, the pavement is non-toxic and suitable for hygienic material and food-grade floors

Limitations

- In enclosed spaces, ensure proper ventilation during application and the following 48 hours.
- In applications exposed to UV, yellowing may occur; we recommend finishing with water-based Alchimica paints.
- Incorrect treatment of cracks and singular points can reduce the pavement's lifespan.
- Not recommended for waterproofing chemically treated swimming pools.

- For chemical applications, consult the technical department.

Application

- The substrate must be clean, free of grease and dust, leveled, porous, and dry.
- Confirm that temperature and humidity requirements are met (refer to the table).
- It is important to monitor the dew point to avoid condensation and whitening in the coating.
- Do not apply at temperatures below 41°F (5°C).
- If the substrate conditions differ from the required ones, consult the technical department.
- For sealing: Apply after sprinkling sand over NEXACRETE SELF-LEVELING.
(For a Class III roughness, use 0.0354–0.0472 in / 0.9–1.2 mm sand or larger.)
- Apply over the NEXACRETE SELF-LEVELING surface with a roller to achieve a light Class II roughness.
- Mix the three components with a low-speed electric mixer (300-400 rpm) to avoid air inclusion.
- Stir Component B (pigmented liquid RAL or amber, unpigmented) for 2 minutes, then add Component C (powder).
- Stir Component B thoroughly in its container for 2 minutes, then add the contents of Component C (powder) to Component B (pigmented RAL liquid or amber unpigmented liquid). Mix for 2-4 minutes until the liquid becomes homogeneous.
- We recommend adding Component A (dark brown liquid) just before application and mixing for 30-60 seconds. Pour immediately.
- If over-mixed, air bubbles may appear in the mixture.
- Do not dilute the product; it is ready to use. For improved workability, you can reduce the amount of added powder.
- Pot life is approximately 12-15 minutes at 77°F (25°C).
- Apply using a rubber squeegee or a medium-pile roller.
- Recoating should be done once previous layers are dry, approximately 6-24 hours later. Do not recoat after 48 hours.

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- The times are approximate and can be affected by changes in environmental conditions, especially humidity and temperature.
- Proper ventilation must be ensured to eliminate excess humidity during curing, for at least 48 hours after application.
- Finishes:
Colors according to the RAL color chart may appear slightly lighter.
Tone variations may occur as this is a cement-based product.
To achieve uniform color, we recommend using NEXA EPOX A. These sealers slightly reduce thermal and chemical properties; consult the technical department if needed.
- To maintain the pavement's appearance after application, all spills must be cleaned immediately after they occur. The pavement should be cleaned regularly using rotary brushes, low-pressure cleaners, vacuums, and appropriate detergents and waxes.

Consumption

- On NEXACRETE SELF-LEVELING with sand: 0.1-0.2 lb/ft² (0.5-1 kg/m²).
- Without sand: 0.08 lb/ft² (0.4 kg/m²).

Cleaning

- Tools should be cleaned immediately after use with water.
- Fully cured material can only be removed mechanically.

Presentation

Batches of 22 lb (10 kg) with RAL pigment paste:

- Component A: 4.63 lb (2.1 kg) (dark brown liquid).
- Component B: 6.15 lb (2.79 kg) (pigmented RAL liquid).
- Component C: 11 lb (5 kg) (sand-colored powder).

Container Stability

12 months in a dry place between (5°C and 25°C).

Transportation, Preventive measures and Storage

Refer to the safety data sheet.

The information provided serves as a recommendation based on laboratory tests and our current knowledge. Different conditions on construction sites may result in variations from the given information; therefore, our warranty is limited to the supplied product. For any questions, please contact our technical department.

Technical Data of the Liquid Product

CONCEPTS	RESULTS
Physical Appearance	Components A and B: Liquid / Component C: Powder
Chemical Base	Polyurethane-cement
Component Density	62.43–81.1 lb/ft ³ (1–1.3 g/cm ³)
Viscosity at 77 °F (25 °C)	Component A: 1000 cP / Component B: 250 cP
Pot Life	12-15 minutes
Recoat Time	4-24 hours
Touch Drying Time	2-4 hours
Full Cure	28 days
Mixture Density	112.36 lb/ft ³ (1800 kg/m ³)

Technical Data of the Membrane

CONCEPTS	RESULTS
Service Temperature	–58 °F to +248 °F (–50 °C to +120 °C)
Density	Accepts moisture