

ARMOFLOOR EPU

Flexible, Impermeable Clear Epoxy-Polyurethane Membrane

Description:

ARMOFLOOR EPU is a 100% solid, two component epoxy polyurethane seamless, impermeable membrane coating, designed to suppress reflective cracking in Terrazzo Resin Flooring Systems. It is used as a crack isolation and waterproofing membrane for internal applications. ARMOFLOOR EPU used in conjunction with a reinforcing fabric, offers stress relieving properties in floor slabs that show movements or vibration.

Uses:

- Crack suppressant layer for the Terrazzo Flooring system in industrial, commercial, retail, institutional and healthcare facilities.
- Waterproofing surface preparation.

Advantages:

- Impermeable and seamless membrane
- Crack resistant, suppresses reflective and hairline cracking
- Flexible yet durable
- Excellent adhesive properties allowing for application on a wide variety of substrates
- Reduces noise created by mechanical vibrations.
- Environmentally friend, easy to apply.

Instructions for Use:

Surface Preparation:

The surface needs to be clean, dry and sound, free of dust, laitance, grease, oils, dirt, impregnating agents, waxes, foreign matters, any previous coatings. Light mechanical scabbling, grit/captive blasting or grinding is recommended for cleaning the surface of such contaminant. Concrete surface must be dry and stable, 28 days old and the moisture content on the surface must be less than 5%.

Mixing:

The product must be conditioned at a temperature between 18°C and 30°C. The contents of the base (Comp. A) should be pre-stirred thoroughly. The entire contents of the hardener (Comp. B) should be added to the base container and mixed thoroughly using a jiffy mixer or a slow speed electric drill for 2-3 minutes until a uniform consistency is achieved, taking particular care to scrap the side and bottom of the container.

Application:

Immediately after mixing, spread the product using a roller or a squeegee to a thickness of 0.5mm. (approx. 2 sq. meters per liter). Unwind the appropriate grade fibre glass mesh onto the wet product for reinforcement and press into the liquid ensuring there is no entrapped air. Maintain a minimum lap of 50mm while overlapping.

Standards:

- ASTM D412, ASTM D4541, ASTM D2240.

TECHNICAL PROPERTIES	
Appearance	Clear liquid
Density	1.05 ± 0.03 kg/lit
Pot-life time at 25°C	45 minutes
Application Temp	10°C to +35°C
Hard Dry	24 Hours
Full Cure	7 days
Elongation (ASTM D412)	55%
Tensile Strength (ASTM D 412)	15 N/mm ²
Adhesion to concrete (ASTM D 4541)	>3.5 MPA (concrete fracture)
Hardness (Shore D) (ASTM D 2240)	40±5

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

ARMOFLOOR EPU

Coverage:

ARMOFLOOR EPU achieves coverage of approx. 2 sq. meters per liter at 500-micron dry film thickness.

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

ARMOFLOOR EPU is available in a set of 15 Liters supplied in metallic dual pack containers.

Cleaning:

Clean all tools and equipment with ARMOSOLVENT prior to hardening of the product. Hardened material can only be removed mechanically.

Storage:

Store in original packing in dry conditions away from direct sunlight and heat. Store between 10°C and 35°C. Damaged packaging, high humidity or extreme temperature may reduce shelf life.

Shelf life:

ARMOFLOOR EPU can be utilized within 12 months of production date if stored under proper condition in unopened original packing.

Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes:** In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin:** Wash skin thoroughly with soap and water
- Inhalation:** Remove to fresh air, keep patient rested
- Ingestion:** Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to ARMOFLOOR EPU Material Safety Data Sheet.

MATEX Rev.02-0223

MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

