

EPOKIM 200

High-Build Chemical Resistance Epoxy Coating

Description

EPOKIM 200 is a high performance, two-component solvent free, epoxy based protective coating. When cured it has high chemical and abrasion resistance properties.

EPOKIM 200 is formulated from epoxy resin, special fillers and chemical additives with hardener. It is suitable for concrete and steel protection in aggressive chemical conditions. also, it is suitable for use as an anti-corrosion and waterproofing coating for water tanks.

Features & Benefits

- Solvent free, High build
- Environment Friendly, low VOC
- Excellent chemical and abrasion resistance
- Excellent adhesion to concrete and steel surfaces.
- Easy to apply by brush, roller or spray.
- Acts as impermeable waterproofing and protective coating.

Uses

EPOKIM 200 can be used as:

- Abrasion resistant universal protective coating material designed for normal to highly aggressive chemical environments
- For use on concrete, cementitious surfaces and steel
- As abrasion protective coating for floors and walls for steel or concrete tanks for storing aggressive products.
- For protective lining of all kinds of storage tanks (such as oil and chemical storage tanks), silos and bund areas
- As an anti-corrosion coating in food and beverage processing plants, machine/ batteries rooms, sewage works, agricultural, chemical and pharmaceutical plants, bottling plants etc.
- Waterproofing and protective coating for water tanks

Technical Properties

Appearance	Liquid Resin
Color	Refer to SBI Color Chart
Mix Density	1,350 Kg/m ³ approx.
Pot Life	40 minutes @ 25 °C
Bonding Strength	≥2.5 N/mm ²
Initial cure	24 hours
Final cure	7 days
Solid Content	100%
Abrasion Resistance	0.2 g weight loss after 1000 cycles
Compressive strength	≥72 N/mm ²
Flexural Strength	30 N/mm ²
Tensile Strength	22 N/mm ²
Water Absorption	None
Shore D hardness	80

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM D 2240, D 412, D624, D 4060
- ASTM C 501, C 307, C 579, C 580

Application Procedures

Surface preparation:

All surfaces should be sound, clean, dry and free from loose and flaking material, efflorescence, laitance, curing compounds, dirt, oil and grease. Suitable preparation using mechanical methods like grinding or blasting in order to provide a suitable clean surface is strongly recommended. All necessary repairs should be made prior to application by using epoxy mortar. Contact SBI Technical Department for advice.

New concrete floors should have been allowed to cure for at least 21 days (moisture content below 5%) in order to allow all shrinkage movement to take place before applying the coating

In General, **EPOKIM 200** does not require priming. However high porous substrates should be primed with TOPSEAL EP.

Metallic surfaces must be brushed or sand blasted (in order to remove all corrosion and mill scale) and then

treated with **EPOKIM 200** before the oxidation process begins again.

Mixing Instructions:

EPOKIM 200 is composed of two components. Prior to application. Add component B (hardener) to component A (resin) and mix together for 2-3 minutes manually or with a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix. The mixed components should be used immediately.

Application Instructions:

EPOKIM 200 mixture can be applied with a brush or roller in a rate of 4-5 m² per Litre. Apply the second coat after 24 hrs to ensure the first coat is fully dry. ensure to apply crossed coats. The two coats will achieve a coat thickness of minimum 400-500 microns. For airless pump applications, the product can be diluted with maximum 10% of SOLVENT 20.

If slip resistance finish is required, spray the silica sand with the required sieve size (Quartz) onto the first coat while it is wet, apply in a rate of 0.6-1 kg/m². Once cured, remove excess sand then apply the final coat.

Chemical Resistance:

Material	Resistance
Lactic Acid 10%	Resistant
Citric Acid 10%	Resistant
Hydrochloric Acid 50%	Resistant
Sodium Hydroxide 50%	Resistant
Acetic Acid 10%	Resistant
Grease	Resistant
Crude Oil	Resistant
Nitric Acid 20%	Resistant
Sulphuric Acid 50%	Resistant
Mineral Oil/ Kerosene	Resistant
Ammonia 10%	Resistant
Sea Water / Jet Fuel	Resistant

Coverage

Each 1 Ltr of **EPOKIM 200** will cover 4-5 sq. meter in 500 microns thickness.

Coverage depends on substrate porosity and profile.

Packaging

EPOKIM 200 is available in 4& 15 Liters two-component Kits.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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