

RESIMORTAR SCR

MULTI COMPONENT 100% SOLID EPOXY RESIN BASED POLYMER FLOOR SURFACE

PURPOSE

- Leveling compound designed for heavy duty application where a high degree of chemical resistance is required
- Used for realigning surfaces hand trowelled surface preparation
- Maybe used as screed or surface imperfection build
- Maybe used to provide texture to the horizontal surface

PROPERTIES

- A unique monolithic topping to protect from heavy mechanical stress and chemical attacks
- Provides high durable surface with tenacious bond to correctly prepared concrete surfaces
- Trowel applied epoxy screed floor topping ranging from 3 – 6 mm in thickness
- Fast and easy application, can be laid by conventional trowel method
- Hygienic and low odor, 100% solid thus no harmful vapors present
- Specially formulated for use in Gulf Region environment

RECOMMENDATIONS

For Cleaning : Rezkem SC111

For Primer : Rezkem EP

TECHNICAL DATA

Solid Content	:	100%
Wet Density (g/cm ³)	:	2.1 kg/ltr
Compressive Strength (BS6319-2)	:	89 MPA
Flexural Strength (BS6319-3)	:	31 MPA
Abrasion Resistance (Taber Abraser ASTM C 4060)	:	2.3 mg/cycle
Bond Strength (ASTM 4541-1)	:	>3 MPA (concrete failure)

Chemical Resistance

Fully cured materials have excellent chemical resistance to most chemical commonly used in industrial environment and tested at a temperature up to 35°C. The performance of a tested material by constant immersion gave the following results:

Sodium Hydroxide	50% resistance
Hydrochloric Acid	60% resistance
Sulphuric Acid	60% resistance
Phosphoric Acid	60% resistance
Lactic Acid	10% resistance
Nitric Acid	25% resistance
Xylene	resists
Skydrol, Butanol	resists (slash/spill)

NB: Enquiries can be raised at RezCoat Technical office for on other chemicals

Mixing Ratio (in kilo)

- Part A : Part B : Part C
- Base : Hardener: Admix (Powder)
- 2 : 1 : 20

Pot Life

@20°C	:	120 mins
@30°C	:	60 mins

Initial Hardening

@20°C	:	24 hrs
@35°C	:	16 hrs

Full Cure

@20°C	:	7 days
@35°C	:	5 days

APPLICATION

Surface Preparation

All surfaces must be clean and free from oil, grease, water and other contaminants which may inhibit bond. For best results, surface should be dry.

New Concrete

Should achieve a compressive strength of 20 MPA minimum. Surface must be free from laitance, form oil and curing compounds. The surface should have fine wood float or slightly brimmed finish and be 28 days old. Laitance on new concrete should be removed by mechanical means such as light grit blasting, grinding or scrubbing.

Old Concrete

Concrete must be sound, remove oil, oil paints, protective coatings and attacked or deteriorated concrete parts, chemically clean surface to remove any contaminants. Mechanical cleaning and removal of laitance using abrasive blast or high pressure water blast to provide uniform, textured surface. For heavy contamination by oil and grease which may well be absorbed through the concrete surface, heavy scrubbing is essential to completely remove it. Finally vacuuming the surface is essential prior to applying **Resimortar SCR**.

Steel Surface

Grit blasting should be used to produce a bright surface (SA 2½, BS4232) immediately followed by priming **Rezkem EP** steel primer to the surface prior to **Resimortar SCR** application.

Priming

Rezkem EP concrete primer should be well mixed using a drill and mixing paddle. Remix each liquid container of base and hardener prior to emptying entire contents of the smaller hardener can into the base can and thoroughly mixed for 1-2 minutes.

Apply **Rezkem EP** immediately after mixing to the clean prepared surfaces using short nap adhesive roller or nylon brush in a thin continuous film. Use a stiff brush to finish off and scrub the primer well onto the surface (use a stippling action to penetrate into crevices), avoid over application and puddling. For porous surface, first prime coat may well be absorbed leaving dry patches, it is advised to apply second priming coating.

Mixing and Installation

Resimortar SCR should be mechanically mixed. Mix liquid and hardener thoroughly for 1-2 minutes by emptying full each can into mixing drum. Add the total aggregate bag gradually with constant stirring, mixed 3-5 minutes. At the end of mixing period, all materials should be wetted out until a uniform color and consistency is obtained. Do not add solvent to any component or to the mixed material. Discard any material which has begun to harden.

Resimortar SCR should be placed immediately after mixing and laid to desired thickness in one application whilst the **Rezkem EP** is still tacky. Do not leave mixed materials in the mixing vessel. Use hand trowel and wooden float to spread and tamp the mortar with the use of screeding bar to ensure full compaction and leveling.

Topping

In areas where specific color, improvement in chemical resistance, or an increase in the degree of cleanliness is required, apply topping within 24 hours at 30°C.

Where further overcoating or marking is required, consult RezCoat for advice on recommended overlay material

Cleaning

Tools and equipment should be cleaned with **Rezkem SC111 Cleaning Solvent**. Do not use the solvent for thinning, as it will inhibit the material properties.

Packaging

Resimortar SCR	:	23kg/pack
Yield	:	11.5 liters
Rezkem EP (concrete)	:	5 kg/pack
Rezkem EP (steel)	:	5 kg/can

Coverage

Resimortar SCR (5mm THK)	:	2.3 m ²
Rezkem EP (concrete)	:	5-7m ² /kg
Rezkem EP (steel)	:	12-15 m ² /kg

HEALTH AND SAFETY

Resimortar SCR, Rezkem EP primer and **Rezkem Solvent SC111** should not come in contact with skin and eyes. Some people are sensitive to resin. Use chemical goggles, PVC gloves and barrier cream. Avoid contact with skin and eyes when handling the5 products. Do not use solvent for skin remover of resin instead a cream remover must be used before it gets hard.

Storage

The product should be kept in original unopened containers away from direct source of heat in shaded area at a temperature of below 30°C.

Fire

Resimortar SCR and **Rezkem EP** primer are non –flammable products.

Rezkem Solvent SC111 is a flammable material; avoid formation of flames and sparks near the product.

DISCLAIMER

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