

MOISTURE INSENSITIVE EPOXY PUTTY

Description

REPCON EP UWP is a solvent free epoxy resin based putty. It has the special property that it is a moisture insensitive repair material. It is applied directly to concrete for filling cracks, blow holes etc., which cures to a surface ready for subsequent coatings.

Uses

REPCON EP TM can be used in a number of varying applications:

- As bonding mortar on stone, concrete, mortar, plaster work, etc.
- For vertical and overhead filling of cavities
- For damaged stair-nosings and spalled concrete

Advantages

- Easy to mix and apply
- Very good adhesion to most construction materials
- High strength mortar
- Thixotropic: non-sag in vertical and overhead applications
- Hardens without shrinkage
- Different coloured components (for mixing control)
- No primer needed

Technical Data

Appearance	Comp A - White paste Comp B - Black paste Comp C - Yellow Coarse sand Mixed - Concrete grey paste
Ratio	Comp(A:B:C) = 2:1:3
Mixed density (A+B+C)	2.0 ± 0.1 g/cm ³ (at 27°C)
Compressive strength: ASTM C579	
1 day	≥65 Mpa
7 days	≥70 Mpa
14 days	≥80 Mpa
Tensile strength: ISO 527-2	N/mm ² (after 14 days at +30° C)
Tensile adhesion strength(14 days)	≥ 10 MPa (concrete failure)
Flowability(Sag flow)	Not more than 20 mm for vertical application
Pot life	30 minutes(100 g mass+27° C)

Layer Thickness Max 30 mm

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Page 1 | 2

Direction of Use

Substrate Preparation

Mortar and concrete must be older than 28 days (depends on minimal requirement of strengths). Verify the substrate strength (concrete, masonry, natural stone). Concrete surfaces must be degreased using degreasing products, torching or any other suitable method which assures the surface is free from any oil traces. Concrete surfaces are to be mechanically prepared to remove laitance and achieve a flat surface, grit blasting or surface profiling equipment are preferred. Surfaces must be free of any dust or loose particles before product application. Use suitable methods like vacuuming or sweeping. If possible, apply the product on a small test area before actual application to check for any problems with the surface preparation.

Mixing:

Mixing Ratio:

Part A : Part B : Part C = 2 : 1 : 3(By weight)

Components A (resin) and B (hardener) and component C(Filler) are delivered in a predetermined mixing ratio. Tip component B into component A, Ensure that the harder drains completely from its container. Mixing the components upto homogeneous, mass, add component C filler slowly to the mixed while mixing process is on till you get a completely uniform mixed material. Mixing to be carried out with suitable mixture, having Approx. 300 rpm Mixed material to be spread evenly in the desired coverage area. The minimum temperature during mixing should be +15° C. Do not use mixed material directly from the packaging.

Priming:

For porous surface primer is required to apply. On dry or light moisted surfaces use Spectra Floguard ERP 2k as primer for horizontal, vertical and overhead application. Coat the surface completely with the primer using a stiff brush. Work the primer well into the surfaces.

Application:

Repair of Damage and Voids in Concrete:

Apply Spectra Floguard ERP 2K to the voids over the wet primer in one application, compact and strike off level with the surface.

Repair of Damage and Voids in Concrete:

In one application, apply Spectra Floguard ERP 2K to the primed area to be coved whilst the primer is still wet, compact and strike off level with the surface. Cove radius: approx. 3 - 5 cm. Consumption: approx. 1.8 kg/m (with a cove radius of approx. 5 cm).

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Packaging

Part A+B+C Pre-batched unit 6 kg
Comp A: 2 kg plastic bucket
Comp B: 1 kg. plastic bucket
Comp C: 3 kg. plastic pouch

Part A+B+C Pre-batched unit 60 kg
Comp A: 20 kg. plastic bucket
Comp B: 10 kg. plastic bucket
Comp C: 30 kg. HDPE Bag

Coverage

Approx 2kg/m²/mm thickness

Cleaning

All tools and equipment should be cleaned immediately after use with Xylene Sol. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

Storage & Shelf Life

12 months from date of production. Store properly in original unopened, sealed and undamaged packaging, in dry conditions at temperatures between +5°C and +40°C. Protect from direct sunshine.

Fire

REPCON EP TM is non flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

Safety Precautions

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

Firstchoice Speciality Chemicals Pvt. Ltd.
(An ISO 9001:2015 & 14001: 2015 Certified Co.)
Shrachi Tower, 2nd Floor, 686, Anandapur, E.M.
Bypass, Kolkata - 700107

Note:

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