

THIXOTROPIC EPOXY BASED REPAIR MORTAR

Description

REPCON EPTM is a solvent-free, 3 component thixotropic mortar based on a combination of epoxy resins and selected quartz aggregates. After mixing it becomes an easy to use multipurpose repair and adhesive mortar..

Uses

REPCON EPTM may only be used by experienced professionals.

REPCON EPTM 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
- As abrasion resistant protective layer Suitable for bearing pad for bridges and heavy machinery.

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
- High initial and ultimate mechanical strength
- Good abrasion resistance

Technical Data

Chemical base	Epoxy resin
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)

Application information

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). The substrate surface of concrete, mortar, rendering stone surfaces must be sound, clean, dry or mat damp (no standing water) and free from contaminants such as dirt, oil, grease, existing surface treatments and coatings, dust and other surface contaminants etc.

Surface preparation

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.

Priming:

REPCON EPTM does not generally require a primer. However, on damp or wet surfaces (no standing water), use REPCON EP PRIMER IN 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 Information

Mixing ratio:

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

Consumption:

2 kg/m² per mm of thickness

Layer Thickness

30 mm max.

Pre-batched units:

Mix components A+B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (max. 300 rpm) until the material becomes smooth in consistency and a uniform grey colour.

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Then add part C and continue until mixture is homogeneous.

Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx. 1 more minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

Packaging

Part A+B+C Pre-batched unit 6 kg

Comp A: 2 kg.

Comp B: 1 kg.

Comp C: 3 kg.

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 and 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.

Storage and Shelf Life

Store in a dry area out of direct sunlight at temperatures between 5°C and 35°C.

Fire

REPCON EPTM is non flammable

Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

Note

All Technical Data Sheets of FIRSTCHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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