

Talrakresimix EP

Chemical and abrasion resistant resin rich general purpose epoxy mortar



The Construction Alchemists

Description

Talrakresimix EP is a three part solvent-free epoxy resin based mortar with epoxy base, hardener and specially graded, chemically inert and high strength mineral fillers, all pre weighed in the right proportions and packed for easy on-site mixing. Talrakresimix EP is laid as durable chemical resistant screed at approximately 3-6 mm thickness. This nominal thickness provides an impervious topping which is highly chemical resistant by the very careful choice of amine hardener and graded fillers.

Features & Benefits

- Durable - Exceptional resistance to abrasion and to a wide range of chemicals
- Non-slip - Good gripping surface to both vehicular and pedestrian traffic
- Easily laid - Designed for easy laying and good finish
- Texture - Close textured surface - no need for over Coating
- Fast - Usable after 24 hours of laying

Primary Application

Talrakresimix EP is essentially used to fill the surface voids, blow holes in concrete to even out the surface. It is applicable for patch repairing of edges and minor undulations in RC members, repairing of epoxy bedding in industries, underlaying mortar for epoxy floor toppings.

Technical Properties

Pot life of mixed material	25 to 35 minutes @ 27°C
Specific gravity of mixed material	1.65 - 1.75 @27°C
Initial hardness	After 16 hours
Compressive strength	75MPa @ 7 days
Flexural strength	26 MPa @ 7 days
Tensile strength	12MPa @ 7 days
Abrasion resistance	3.0 mg/cycle
Bond strength to concrete	3.0 MPa @ 7 days
Full cure	7 days

Chemical resistance

Fully cured blocks of Talrakresimix EP exhibits resistance to a wide range of aggressive chemicals commonly found in industrial environments while tested by constant immersion at 30°C.

Hydrochloride Acid 10%	Excellent
Sulphuric acid 10%	Excellent
Phosphoric acid 30%	Excellent
Nitric acid 10%	Good
Lactic 10%	Excellent
Citric 10%	Excellent

Alkalies

Sodium Hydroxide 30%	Excellent
Ammonia	Excellent

Solvents

Butanol	Good
White spirit	Excellent
Oil/Grease/Petrol	Excellent
Xylene	Good
Acetone	Not resistant
Skydrol	Good

Aqueous Solutions

Concentrated Bleach	Excellent
Saturated Urea	Excellent
Saturated Sugar	Excellent

Those materials marked 'Good' are suitable for areas for occasional spillage where good house keeping is in force. All the above properties have been determined by laboratory controlled testes and are typical of those expected in practice.

Specification Clauses

The epoxy repair mortar for repairing the local undulations on the surface of the RC elements shall be solvent-free epoxy resin based mortar Talrakresimix EP, which shall have a minimum compressive strength of 75MPa @ 7 days, Flexural strength of 26 MPa @ 7 days and Tensile strength of 12MPa @ 7 days.

Application Instructions

Surface Preparation

The substrate has to be sound and solid as well as free of bond inhibiting agents such as grease and oil. Remove all bond breaking substances such as laitance, loose particles, dust, etc. The substrate can be prepared according to need by shotblasting, grinding or brushing.

New Concrete

Should be at least 28 days old (moisture content should be less than 5%). Laitance deposits on new concrete floors are best removed by light grit-blasting, mechanical scabbling, grinding or sand blasting.

Old Concrete

Mechanical cleaning methods are strongly recommended on old concrete surfaces particularly where heavy contaminations by oil and grease has occurred or some other coatings are present. If the contaminants have penetrated into the concrete, the surface concrete should be chipped off to remove all contaminated concrete to the entire depth of penetration. All dust and debris should be removed prior priming.

Priming

All surfaces to be treated with Talrakresimix EP should be primed with Talrakepoprime LV. Apply the primer in a thin continuous film to the clean prepared surface. Work the primer into the surface using stiff brushes, avoid over application and puddling. On porous concrete surfaces Talrakeopprime LV will be absorbed very quickly leaving characteristic light coloured dry patches. It is recommended that a second priming coat be applied. Allow the primer to become tacky before applying Talrakresimix EP. This time is dependent on climatic conditions. Refer "Talrakepoprime LV" TDS for more details.

Mixing

It is important that Talrakresimix EP is mixed correctly. A suitable forced action mixer such as a paddle fitted into a heavy duty, slow speed, electric hand drill or a similar equipment, is recommended for mixing. The entire contents of hardener tin should be poured into the base container and mixed thoroughly until homogeneous. It is recommended to mix the filler component manually in its bag before adding to the mixed base and hardener.

Add the fillers slowly to the mixed material, continue mechanical mixing for a further 2-3 minutes, until a homogeneous lump free mix is achieved. Once mixed, the materials must be used within the specified pot life. After this time, unused materials would have hardened and should be discarded.

Application

The mixed material should be spread to uniform thickness on the primed surface using a steel trowel. The material should be tamped with a wooden float to ensure complete compaction and finally finished to a closed even texture using a steel trowel.

Cleaning

All tools and equipment should be cleaned immediately after use with Talrasol GP.

Estimating Packaging

Talrakepoprime LV is supplied in 1.11 kg and 4.44 kg combo packs.

Talrakresimix EP is supplied in 24 kg combo packs.

Coverage

Talrakepoprime LV - 1 kg of material will cover 5 - 6 sqm area.

Talrakresimix EP - 1.65 to 1.75 kg of mixed material is required to cover 1 sqm @ 1mm thickness.

Storage

Talrakepoprime LV and Talrakresimix EP has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety Instructions

Some people are sensitive to epoxy resins and solvents. So, gloves, barrier creams, protective clothing and eye goggles should be worn when handling these products. If accidental contact occurs, it should be removed before it hardens with resin removal cream followed by washing with soap and water. Do not use solvent. If eye contamination occurs then wash with plenty of clean water and seek immediate medical attention. Ensure good ventilation and do not smoke during use.

Important note :

Talrak products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Talrak endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



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An ISO 9001:2015 Certified Company

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Ref : TCC/TDS/RE15 - R4