

Resigrout EUF

High strength, low viscous epoxy resin grout



The Construction Alchemists

Description

Resigrout EUF is a low viscous solvent free epoxy resin grout. The product is specially designed for grouting of gap widths of 0.25 to 10mm between concrete and metal surfaces, concrete - concrete surfaces or any other mineral substrates. Resigrout EUF is supplied in a dual combo pack of pre-weighed base and hardener which facilitates ease of mixing on site.

Features & Benefits

- Non shrink - ensures full surface to surface contact during application
- High early strength - faster commissioning of plant
- Fatigue resistant - cured material responds well for loading and unloading cycles
- User friendly - prepacked site batching avoided
- Good bond- high shear adhesive strength with different materials

Primary Application

Resigrout EUF provides a free flowing grout for application areas where physical properties and chemical resistance of the hardened grout are very important. Some of its application areas are as below:

- Grouting of annular space between concrete and steel for strengthening of structural elements by steel plate bonding.
- Base plate grouting where narrow recesses are encountered with dynamic load situations such as turbines and other reciprocating machinery.
- Structural infill where very high strength is required.
- Grouting of baseplates of steel stanchions, Rail tracks of EOT and heavy cranes in ports and harbors etc.

Specification Clause

The grouting material shall be epoxy based, nonshrink, free flow grout. It shall provide good general chemical resistance and a 7 day compressive strength not less than 70 MPa.

Technical Properties

Pot life of mixed material @27°C	45 minutes
Density of mixed material	1.1 g/cc
Viscosity of mixed material	180 to 250 cP
Compressive strength @3 days @7 days	50 MPa 70 MPa
Flexural strength @7 days	40MPa
Tensile strength @7 days	20 MPa

Application Instructions

Underplate gap grouting

The unrestrained surface area of the grout must be kept to a minimum. Generally, the gap between the perimeter formwork and the plate edge should not exceed 50 mm on the pouring side and 25 mm on the opposite side. Formwork on the flank sides should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

Formwork

The formwork should be constructed to be leak proof as Resigrout EUF is a free flow grout. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints.

For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper should be used - please consult Talrak for more details.

Concrete substrate

This must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes or fixing pockets must be blown clean of any dirt or debris using compressed air

Base plate

If delay is likely before placing steel base plates, it is recommended that the underside and edges are coated with Talrakepoprime LV to prevent rust formation and ensure bonding with the Resigrout EUF grout. All metal surfaces should be cleaned to a bright finish in accordance with Swedish Standard SA 2½ or equal. Talrakepoprime LV can be applied directly onto newly cleaned steel surfaces even if they are damp.

Mixing

The entire contents of the hardener can should be poured into The base container and mixed for 2-3 minutes or until uniform colour is achieved. Once mixed, the material must be used within the specified pot life (see under technical properties). After this time, if any left over material is existing it should be discarded.

Grouting with Resigrout EUF should be carried out only when all the surfaces coming in contact with the grout are dry.

Application

Ensure that the grout can be placed within its pot life. Continuous grout flow is essential. Sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one. Pouring should be from one side of the void to eliminate air entrapment. The hydrostatic head must be maintained at all times so that a continuous grout front is achieved.

Cleaning

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

Hot weather working

Whilst the performance of Resigrout EUF at elevated temperatures is assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for temperatures above 35°C, the following guidelines are used:

- Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- Keep mixing and placing equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight.
- Ensure that there are sufficient operatives available to complete application within the material's pot life.

Caution

Grouts should not be placed in any unrestrained situation, i.e. base plate plinths, etc. to avoid cracks in the grout upon hardening.

Estimating

Packaging

Resigrout EUF is supplied in 1ltr pack
Talrasol GP is supplied in 5 & 20 ltr can

Storage

Resigrout EUF 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

Resigrout EUF should not come into contact with skin and eyes or be swallowed. Avoid prolonged inhalation of solvent vapours. Some people are sensitive to epoxy resins, hardeners and solvents. Gloves, goggles and barrier creams should therefore be used while handling the product. Adequate ventilation should be ensured and if working in enclosed areas, suitable breathing apparatus must be used. If the resin comes in contact with skin, it must be removed before it hardens with a resin removing cream, followed by washing with soap and water - solvent should not be used. Talrasol GP should be washed from skin immediately with soap and water. Should accidental eye contamination occur with any of the above products, it should be washed well with plenty of water and medical advice should be sought. If swallowed medical attention should be sought immediately. Vomiting should not be induced.



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Ref : TCC/TDS/GA10 - RI