

Corrogrout EP LE-M

Multi-purpose epoxy grout

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Product Features

Corrogrout EP LE-M is a 3 component, solvent free, pouring grade epoxy grout, specifically designed to develop high early and ultimate compressive strengths with low exotherm properties for heavy duty applications.

Corrogrout EP LE-M offers excellent load transfer, chemical and abrasion resistance, providing a smooth free-flowing consistency that completely fills the required gap or void from widths of 20 to 100 mm in a single layer of grout.

Typical Uses

Corrogrout EP LE-M is suitable for use in many industries such as power, chemicals, oil, gas and automotive, for grouting very heavy duty applications such as turbines and generators, static machines subject to dynamic loads, crane rails, base plates of heavy plant or equipment or where chemical resistance is required.

It also provides a waterproof pile head treatment preventing water ingress into pile caps, and can be used for anchoring bolts into post drilled holes with an annulus of 5 – 25 mm greater than the diameter of the bolt or bar.

Technical Data		
Properties	Test Standards	Typical Values
Pot life @ 25°C @ 35°C		: 40 min : 30 min
Peak exotherm, 200 grams mass		: 50°C
Compressive strength @ 7 days	BS 6319 : Part 2	: 80 N/mm ²
Effective bearing area		: 95% minimum
Full cure		: 7 days
Tensile strength @ 7 days	BS 6319 : Part 7	: 14.50 N/mm ²
Flexural strength @ 7 days	BS 6319 : Part 3	: 29.50 N/mm ²

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Concrete

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate.

Concrete surfaces particularly if new, should be fully cured with a maximum residual relative humidity (RH) of 75%, clean and free from contamination such as dust, oil, grease, organic growth, release agents & curing compounds.

For grouting to base plates, erect a watertight formwork tight to

the longest sides of the plate to be grouted, ensuring the height of the formwork extends above the height of the base plate.

At one of the short ends of the plate, erect a hopper at least 50 mm away from the plate, with sufficient volume to create a minimum height of 200 mm above the level of the base plate.

This will ensure the material flows in a continuous pour under the plate without potential air voids.

At the opposite short end to the hopper erect a similar formwork to the long sides but leaving a gap not exceeding 25 mm from the plate to minimise the unrestrained area of grout as it exits from under the plate.

For waterproofing of pile heads chip the pile back to sound concrete ensuring no feather edges and a good mechanical key for the subsequent grout, or reprofile the pile heads using a cementitious micro-concrete such as **Corrocrete MC** (see separate data sheet), prior to the application of **Corrogrout EP LE-M**.

Erect formwork around pile heads leaving a minimum gap of 20 mm between the pile and formwork, ensuring it is well constructed, watertight and has a suitable release agent such as **Corrorelease WB** to facilitate easy demoulding.

Priming

Priming is not normally required however please ensure the substrate is clean, dry, sound and free from contamination.

Dust and surface contamination must be removed prior to subsequent application of **Corrogrout EP LE-M**.

Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Mechanically mix the entire contents of the resin components together for at least 1 – 2 minutes until a homogenous consistency is achieved.

DO NOT UNDER ANY CIRCUMSTANCES PART MIX MATERIALS.

Empty the mixed resin into a suitable empty container with sufficient volume to accommodate the total yield of the material.

Add the powder or aggregate component to the mixed resin component and mix using a slow speed drill and paddle or forced action mixer for an additional 2 – 3 minutes until a uniform colour & consistency is achieved.

ALWAYS ADD THE POWDER TO THE RESIN.

Leave the mixed material to stand in the container for several minutes prior to application.

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Application

For base plates pour the mixed **Corrogrout EP LE-M** into the formwork hopper allowing it to flow under the base plate. Keep topping up as required to ensure a continuous flow in a single operation, stopping after the material exits the formwork at the opposite end of the plate and rises to the desired finished level.

For pile head waterproofing pour the mixed **Corrogrout EP LE-M** into the formwork allowing it to flow around and on top of the pile. Keep topping up as required to ensure a continuous flow in a single operation, stopping after the material has completely filled the formwork to a minimum thickness of 20 mm above the highest level of the pile concrete.

The application should be carried out in a continuous operation without breaks, therefore please ensure sufficient materials, equipment and labour are available to achieve this.

After the grout has achieved initial set, dismantle the formwork and hopper, and trim the grout to finish as required.

Curing

Allow **Corrogrout EP LE-M** to cure fully for 4 - 7 days before exposing to full mechanical, chemical or environmental conditions.

Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Use iced water jackets to keep material cool whilst mixing.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools and equipment immediately after use with Corroclean.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendation.

Avoid application if the work area may be subject to the onset of rain or moving water.

Do not part mix under any circumstances.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

The product should not be thinned with any type of solvent under any circumstances.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

Corrogrout EP LE-M pack size: 32 kg. Coverage rate approximately 16 litres yield per pack

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrogrout EP LE-M has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.

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Product Warranty

Corrotech Construction Chemicals product will meet the performance claims stated herein when material is stored and used as instructed in this Technical Data Sheet. Corrotech Construction Chemicals ensures that all its products are carefully manufactured to ensure the highest quality possible and are tested strictly in accordance with universally recognized standards (ASTM, BS, etc.). Since Corrotech Construction Chemicals has no control over the use of the product described herein, no warranty for any application can be given.