



CHEMRITE® PAD GROUT

High Early Strength Structural Grout

Product Description

CHEMRITE® Pad Grout is high-flow, ultra-high strength, heavy duty structural epoxy grout. It's self-levelling properties and high early strength makes it suitable for multiple civil applications; specially for transferring loads to foundations.

Features

This versatile, multipurpose, pourable product is formulated to maximise structural strength and maintain excellent workability. The mix can easily be applied by hand. This flowable and self-levelling compound is excellent for precision grouting, rail anchoring and grouting, machine grouting, structural anchoring, or constructing bearing pads where high early strength is required. The self-levelling properties make it easy to fill tight corners or attain the shape needed. Its de-airing properties assist reducing entrapped air to maximise compressive strength.

Key Attributes

- Two easy-to-mix components
- Self-levelling
- Excellent flow
- Ultra-high early strength
- Excellent chemical resistance
- Ultra-high mechanical strength
- Excellent adhesion
- Non-shrink

Typical applications

- Precision support in high dynamic loading conditions
- Machinery base grouting
- Rail anchoring and grouting
- Structural anchoring and support
- Bearing grouting
- Grouting underneath steelwork and steel baseplates

Technical Properties

| | |
|---|--|
| Product Type | Epoxy Grout |
| Number of Parts | 2 |
| Appearance | |
| Part A - Epoxy Resin | Dark Grey Paste |
| Part B - Hardener | Amber Liquid |
| Finish | Smooth/Gloss |
| Mixing Ratio by Volume (Part A : Part B) | 4 : 1 |
| Mixing Ratio by Weight (Part A : Part B) | 7.12 : 1 |
| Working times (@25°C , 55% RH) | |
| Pot Life | 20 Minutes |
| Initial Cure Time | 2 Hours |
| Full Cure | 7 Days |
| Bond to Concrete | Concrete Failure |
| Maximum Placing Thickness | 125 mm |
| VOC | Low |
| Cured Grout Density – AS1012: 12.1-R2014 | ≈ 1.75 kg/l |
| Solids Content | ≈ 100% |
| Chemical Resistance | Excellent. Contact Chemrite Technologies for specific information. |
| Colours | AS2700 range of colours available upon request. |
| Packaging | 10 litre kits |
| Shelf Life | 24 Months |



| Compressive Strength - AS-1012: 9-2014 | |
|---|---------|
| 2hr | 83 MPa |
| 4hr | 101 MPa |
| 6hr | 104 MPa |
| 12hr | 107 MPa |
| 24hr | 110 MPa |
| 3 days | 112 MPa |
| 7 days | 114 MPa |
| Flexural Strength (7 days) | 38 MPa |
| Tensile Strength (7days) | 17 MPa |

Preparation and Placement

Concrete Preparation

Concrete surfaces must be sound and should be free from oil, dust, rust, wax, grease, or any other contaminants and loose particles.

As each site will have differing circumstances, it is strongly recommended that on-the-spot adhesions tests are done prior to application.

Steel Preparation

All steel surfaces should be grit blasted free of dirt, rust, mill scale, old coatings, or contaminants.

Formwork Preparation

When using formwork, the formwork should be constructed in such way that all joints can be sealed. CHEMRITE® Pad Grout is a free-flowing grout and will easily flow through unsealed joints causing waste of material and underfilled areas. Formwork should be coated with a release agent (grease or wax) or made from smooth plastic/plastic coated components to facilitated removal.

Mixing

Add all of Part B to the Part A container. Using a drill and paddle, mix the compound at a slow speed of not more than 350 RPM. Continue mixing until the compound has a constant consistency and colour.

Only mix the amount of grout that can be placed within 20 minutes.

Placing

CHEMRITE® Epoxy Pad Grout can be placed at ambient temperatures between 5°C and 25°C without any special requirements.

CHEMRITE® Epoxy Pad Grout will generate heat after mixing and should not be placed in depths greater than 125 mm. Excessive heat formation will cause distortion of the placed layer. Additional layers can be placed once the previous layer has initially cured, and its temperature has returned to ambient temperature.

At ambient temperatures above 25°C, the work time will be reduced at an approximately rate of 1 minute per °C, i.e., at 35°C the work time will only be approximately 10 minutes.

CHEMRITE® Epoxy Pad Grout should not be placed if the ambient or surface temperature is below 5°C.

The mixed grout should be poured continuously from one location only and as close to the substrate as possible to minimise incorporation of air. Ensure continuous grout flow is maintained until the whole area has been filled. For large areas ensure enough personnel is available to assist with timing grout mixing to maintain continuity of the pour. Concrete Preparation

Cleaning

All tools should be cleaned before the curing process has started using the CHEMRITE® Technologies Epoxy cleaner.

Spillages should be contained with sand, clay or another inert absorbent material and disposed of in accordance with local regulations.

Packaging

CHEMRITE® Pad Grout is packaged in 10 litre kits.



Limitations

Not suitable for large volume applications.

Storage

Store product away from direct sunlight, in dry conditions and at temperatures between +5 °C and +30 °C.

Safety Precautions

Chemrite® Pad Grout is classified as hazardous. Refer to the product Safety Data Sheet (SDS) before use.

Whenever applying an epoxy resin, protective clothing must be worn. At a minimum, suitable rubber gloves and protective eyewear must be worn.

In an emergency, contact the Poisons Information Centre on 13 11 26.

Product Disclaimer

This Technical Data Sheet (TDS) summarises to the best of our knowledge the characteristics of the product, how to use it and how to apply it based on the information available to us at the time. It is recommended that you read this TDS and consider the information in the context of how the product will be used, taking into consideration interactions with any other products, the type of surfaces it will be applied to and the way in which the product will be applied. We reserve the right to change the properties of our products. If you have any doubts about any content herein, it is strongly recommended that you contact one of our technical experts for advice. Our responsibility for products sold is subject to the CHEMRITE Technologies standard terms and conditions of sale. We do not accept any liability for any losses suffered or damages of any nature whatsoever resulting from the use of or reliance upon information herein, or the product to which information refers.

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