

ConGrout EP GP

Free Flowing, High Strength
Epoxy Grout

DESCRIPTION

ConGrout EP GP is a three component, 100% solids, high strength, fluid grout based on epoxy resin for use in underpinning base plates, cranes rails and other equipment subject to dynamic loads.

ConGrout EP GP offers rapid strength development and excellent flow characteristics. It flows into spaces under machines and fills completely before hardening. It shows good resistance to impact and vibratory loading equal to reinforced rubber materials and will not delaminate under the most severe shock loads.

USES:

ConGrout EP GP is used for:

- General purpose grouting the gaps between machinery, rail base plates & a substrate.
- Bedding
- Void filling
- Floor panel repairing where high early strength is required
- Anchoring of wide range of fixings

ADVANTAGES

- Fluid consistency
- High early strength
- Easy application
- Excellent adhesion with concrete and steel
- Pre-weighed three components
- Impermeable

TECHNICAL SPECS & PROPERTIES

Pot Life	30 minutes @ 20°C
Specific Gravity	1.65 @ 20°C
Compressive Strength ASTM C-579 2" (50 mm) cubes @ 70°F (21°C)	3 days (75 N/mm ²)
	7 days (85 N/mm ²)
	28 days (90 N/mm ²)
Flexural Strength, ASTM C 580	3 days (25 N/mm ²)
	7 days (26 N/mm ²)
	28 days (27 N/mm ²)
Modulus of Elasticity, ASTM C 580	3 days (8.0 x 10 ³ N/mm ²)
	7 days (8.3 x 10 ³ N/mm ²)
	28days (10.1 x 10 ³ N/mm ²)
Tensile Strength, ASTM C 307	3 days (14 N/mm ²)
	7 days (15 N/mm ²)
	28 days (15 N/mm ²)
Bond to Concrete:	Exceeds tensile and shear strength of concrete.
Gel Time, ASTM D 2471	70 minutes @ 23°C
Chemical Resistance: ASTM D-543,	Excellent resistance to most chemicals, specific recommendations available upon request.
Abrasion Resistance:	Greater than concrete.

APPLICATION INSTRUCTIONS

Preparation:

All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond. Any loose concrete should be removed and repaired or filled with grout as part of the repair to provide a solid foundation.

Mixing:

ConGrout EP GP is suitable for mixing using a drill and suitable paddle. Mix for 3 to 5

minutes to ensure thorough mixing. Only mix that quantity of material that can be used within the setting time. Do not attempt to rework or re-temper any partially set product. Avoid waste by using all the kit within 15 minutes of mixing.

Note: Liquid epoxy grouts will exotherm and set prematurely if not used within the pot life.

Application:

Application by Pouring into Formwork This method is commonly used for base plate installation where intimate contact between the grout and base plate is essential to the operation of the equipment being installed. Ensure the formwork is liquid tight by testing with water where possible, allow for provision of drain plugs to remove all water prior to grouting. Use Silicone sealant or other mastic to seal up the joints in the boxing. Place the mixed ConGrout EP GP in the reservoir and maintain the level of liquid by topping up the grout. Do not allow the level in the header box to fall below the bottom of the base plate. Ensure all formwork, shims etc., are greased or coated with Strip form prior to grouting.

Note: Hardened grout can only be removed by grinding.

Curing:

ConGrout EP GP is suitable for removal of formwork after 24 hours.

Allow 7 days for full cure.

CLEAN UP

Clean all equipment with solvent immediately after use.

PACKAGING:

ConGrout EP GP is supplied in ready to use, 16 Kg Kits.

STORAGE

ConGrout EP GP has a shelf life of 12 months. Its aggregate bags & epoxy based resin must be stored in the original unopened containers at 5^o C-30^o C.

HEALTH & SAFETY PRECAUTIONS:

Where temperatures is less than 5^o C or greater than 35^o C are encountered, contact our Technical Staff for specific advice. ConGrout EP GP is non-toxic, but it is alkaline in nature. Any contact with eyes or skin should be washed off with soap and clean water. Protective gloves, goggles and clothing should be worn. Repeated contact with cementitious products can cause sensitization in some people handling this type of product. Where this occurs, seek medical advice before continuing use.

TECHNICAL SERVICES:

A trained RADIANT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

Important Note:

RADIANT Construction Technologies manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.