

EPO GROUT HS

EPOXY GROUT FORMULA



DESCRIPTION

EPO GROUT HS is formulated from exceptionally high tensile and compressive strength epoxy resins, selected quartz aggregate and other special components. This product is a 100% solids system which is characterized by near zero shrinkage and excellent adhesion to diverse materials. It has been formulated with precise setting times and curing rates in order to minimize down time of grouted equipment. Its resilience enables EPO GROUT HS to withstand impact and vibration under all types of heavy-duty machinery.

FEATURES & BENEFITS

- Impact resistant and resilient.
- Low shrinkage and fast hardening.
- Chemically resistant.
- High-yield formulation.
- Excellent bond to concrete.
- More than 95% effective bearing surface area.

BASIC USES

Uses include steel mill equipment such as hot and cold rolling mills, manipulating tables, run out tables, coilers and hoists. Other industrial equipment including compressors, pumps, pulverizers, conveyors and presses requiring epoxy grout support beds. EPO GROUT HS is excellent for anchors and embedments. It can be used where the foundation is exposed to chemical spillage in fertilizers and petrochemical industries.

ENGINEERING DATA

HANDLING CHARACTERISTICS ASTM D-2471

Temperature	Pot Life	Working time
60°F	60 minutes	75 minutes
75°F	30 minutes	45 minutes
90°F	20 minutes	30 minutes

Peak Exotherm ASTM D 2471
@ 73°F (23°C... 91°F (33°C) @ 320 minutes

CHEMICAL RESISTANCE OF GROUT ASTM D 543

(7 days total immersion)

10% Hydrochloric Acid excellent
10% Sulfuric Acid excellent
10% Caustic Soda excellent
Saturated Salt Solution excellent
Gasoline good
Machinery Oilexcellent

PHYSICAL PROPERTIES OF GROUT

ASTM C579 @ 21°C

Compressive Strength / 2" Cubes

1 day	69 mpa
3 days	100 mpa
7 days	103 mpa
14 days	107 mpa
28 days	110 mpa

Flexural Strength, ASTM C-348

7 days	24 mpa
--------	--------

Creep Data, ASTM C1181

3 days	2.9×10^{-4} mm/mm
7 days	3.0×10^{-4} mm/mm
28 days	4.2×10^{-4} mm/mm

ASTM C-531

% Linear Shrinkage 28 days 0.019 %

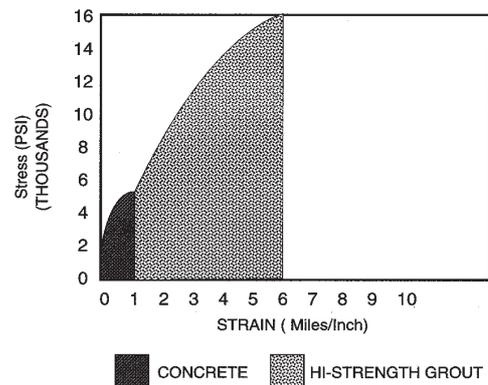
Coefficient of Thermal Expansion

12.1×10^{-6} in./in./F°	at 40°F - 150°F
22.5×10^{-6} in./in./F°	at 71°F - 212°F

Toughness Analysis ASTM C-469

TOUGHNESS

34.5 mpa psi CONCRETE COMPOUND TO EPO GROUT HS



Bond To Concrete

Bond strength will exceed tensile and shear strength of concrete

Impact Resistance

Greater than concrete

Abrasion Resistance

Greater than concrete

DIRECTION FOR USE

All surfaces must be structurally sound to obtain a good bond. Any unsound material must be removed by chipping or scarifying. Contaminated surfaces that may interfere with bond should be removed by appropriate means which may include sand blasting, solvent stripping, or acid etching. After acid etching, thoroughly pressure wash. The final step in cleaning should be the removal of any loose particles and dust with suitable vacuum system or with water and compressed air. Surfaces should be allowed to dry before grouting.

YIELD	At normal ambient temperatures, the full aggregate loading is advised for maximum overall performance. At cooler temperatures it may be desirable to reduce the aggregate loading to achieve better flow and bearing characteristics.
PACKAGING	EPO GROUT HS is packaged in 0.013m ³ unit.
COLOUR	Contact CMCI tech deptone

Scan Here For Download
Data Sheet



Form Preparation

Forms must be water tight to prevent leakage, and it should be strong and well braced. To facilitate stripping, the forms should be coated with two applications of paste wax or each piece wrapped with polythene.

Anchor Bolt Holes and Blockouts

Holes and blockouts should be cleaned of all dust, dirt, and debris and allowed to dry. If the sides are smooth, roughen the hole with a stiff bristle wire brush or with a rotary bush hammer if access permits.

Mixing

Mixing can be done in a bucket with a drill and mixing prop or in a mortar mixer. Blend Part B (the hardener), which is black in color with Part A, (the resin) which is white in color. Blend until the mixture turns uniformly gray in color without any streaks. Then add part C, (the aggregate/powder blend), and mix for 2 to 3 minutes and until the aggregate is wetted out.

Placing

Pour into anchor bolt holes and blockouts through a funnel or directly if space permits. When grouting under the base plates, pour grout into the headbox and allow to flow under the plate. Straps pre-placed under the plate will aid in working the grout across. Grout should be placed at a minimum of 25 mm thick and a maximum of 150 mm per lift when placed in a large mass. For thickness more than 150 mm per lift, CMCI can be consulted. EPO GROUT HS requires no special curing procedures.

FINISH AND CLEAN-UP

If a smooth finish is desired, the surface of the grout may be brushed and troweled with a light application of CEMTEC SOLVENT. Tools and mixer may be cleaned with CEMTEC SOLVENT, or ketone solvents.

PRECAUTIONS & LIMITATIONS

- Wear protective gloves and eye glasses when handling epoxies.
- Do not use over frozen concrete
- Store material at room temperature before use.
- Solvents used for clean-up are flammable, keep away from heat, sparks, open flame, or lit cigarettes. Use explosion-proof application equipments.

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.

"High Quality Construction Chemicals"
CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES
P.O. Box 7137, Dammam 31462, Saudi Arabia,
Tel: 00966-13-8471450; Fax: 00966-13-8471575
Email: tech@cmci-sa.com, Web: www.cmci-sa.com

Scan Here For Download
Data Sheet

