

Description

GANTREX S3 Epoxy grout is formulated from 3-components epoxy resin, solvent-free system. It is a non-shrink, low exothermic, expansive grout (tested in accordance with ASTM C 827) and formulated to provide high strength and superior creep resistance combined with the highest effective bearing area.

Application

GANTREX S3 Epoxy grout is designed to be used where a pourable, non-shrink, chemical resistant, high strength grout is required. Applications include rail on concrete installations, such as gantry cranes, container cranes, stacker/re-claimers, transfer car runways, log handling crane runways and many other types of material handling applications.

GANTREX S3 Epoxy grout is suitable for gap sizes between 20 and 229 mm (¾ and 9 inches).

Technical characteristics

Yield : 1 unit (= 1 kit) is 28,415 kg enabling to fill 14,4 liter or dm³
 Working time at 20°C : approximately 90 minutes
 at 35°C : approximately 45 minutes

It is recommended that material would be in temperature range of 21 to 32°C (70°F to 90°F).
 It will be unworkable below this temperature range.
 Effective Bearing Area : 95%

Compressive strength at 23°C (73°F), ASTM C 579 B

Time	24 hours	7 days	28 days
Compression (N/mm ² or MPa) (psi)	62,1 9000	89,7 13000	110,3 16000

Packaging

GANTREX S3 Epoxy grout is a 3-component system supplied in partially filled containers of resin, hardener and one bag of aggregate. Available in units of 28,415 kg, yielding 14,4 liters of hardened grout.

Shelf life

About 2 years in original unopened packaging when stored in dry conditions. Material stored in a temperature range of 4°C – 43°C (40°F – 110°F), indoors, out of direct sunlight, and 0-90 % relative humidity.
 Before use and for optimum performance, condition material to between 21°C and 31°C (70°F and 90°F).

Clean up

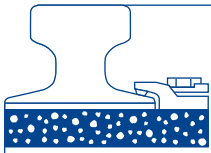
All tools and equipment may be cleaned with a water and strong detergent or solvent solution before material hardens. Sand may be used as an abrasive.

Note: PRIOR TO APPLICATION, READ ALL PRODUCT PACKAGING THOROUGHLY.
 For more detailed placement procedures, contact your closest GANTREX office.

Material safety data sheet

Safety data sheets for all 3 components A (resin), B (hardener), and C (aggregate) are available on request.

On reverse : Instructions for use ►



RESIN

GANTREX S3 Epoxy



Placement guidelines

SURFACE PREPARATION

All surfaces to be in contact with **GANTREX S3 Epoxy pourable grout** shall be free of grease, oil, dust, laitance, water and other contaminants. Concrete must be clean, sound, dry, and roughened to ensure a good bond before pouring the resin.

FORMS AND ISOLATION JOINTS

Formwork shall be constructed of rigid non-absorbent materials, securely anchored, liquid tight and strong enough to resist forces developed during grout placement. The clearance between framework and baseplate shall be 50 to 60 mm (2 to 2.5 inches) to allow for head box. The clearance for remaining sides shall be 25 to 50 mm (1 to 2 inches). Areas where bond is not desired must be treated with paste wax or polyethylene. Isolation joints may be necessary depending on pour dimensions.

MIXING WITH MORTAR MIXER (Stationary Barrel with Moving Paddles)

For optimum performance, all components should be conditioned to between 21 and 27°C (70°F and 80°F) prior to use. Always use at least one-half the capacity of mixer when mixing grout.

- Pour all Component B (hardener-aluminum foil sachet) into empty clean pail containing Component A (resin-plastic or aluminum foil sachet).
- Mix thoroughly by hand with paddle or slow speed mixer to avoid air entrapment until a uniform color is obtained (no streaks).
- Immediately pour all mixed liquids into 25L container (7 gallon) or mortar mixer. If mixing in the 25L container, use a large jiffy type mixer blade with a 20mm (¾") blade drill.
- While mixing at a slow speed (± 20 rpm) and immediately after mixing Component A (resin) and Component B (hardener), slowly add approximately 1/3 of Component C (aggregate) and begin mixing.
- Continue adding the remainder of aggregate and mix only until it is complete wetted out.

Working time is approximately 75 minutes when temperatures are at 23°C (73°F). Do not mix more material than can be placed within the working time of the grout.

METHODS OF PLACEMENT

Grout must be placed without interruption. Should a delay occur beyond the working time of the material, all equipment used in mixing and placing the epoxy grout, shall be cleaned. A head box or similar device is required for a continuous pour to avoid air pockets under the baseplate.

GANTREX S3 Epoxy grout may be poured into place. All grouting shall be placed from one side to the other, maintaining contact with the bottom of the baseplate at all times maximizing effective bearing area (EBA).

When pouring, the head box shall be kept at least half full and filled in a manner to avoid air entrapment. If necessary to assist the flow, a plunger may be used. This procedure shall continue until the grout rises above the bottom edge of the baseplate on the opposite side.

For clearances greater than 200mm (8 inches), contact your closest GANTREX office.

POST-PLACEMENT PROCEDURES

Final finishing of exposed surfaces is aided by using a solvent wiped towel just before material becomes unworkable. In-service operation may begin immediately after minimum required grout strength and modulus have been achieved. After placement, avoid exposure to water for 24 hours to allow for proper curing. Temperature range for curing is 10°C min to 40°C max (50°F min to 105°F max).

LIMITATIONS

- Flowability and strength gain are adversely affected by low temperatures
- For placement temperatures between 10°C and 21°C (50°F and 70°F) or above 32°C (90°F), contact your closest GANTREX office.
- To obtain bond, concrete shall be visibly free of surface moisture.
- When clearances are outside the recommended range or when exceeding maximum placement volumes, contact your closest GANTREX office.
- Do not add solvents to increase flowability.
- For continuous operating temperatures exceeding 82°C (180°F), contact your closest GANTREX office.
- Construction practices dictate concrete foundation should achieve its design strength before grouting.

CAUTION

Irritant, toxic, strong sensitizer. Contains epoxy resin and amine. This product may cause skin irritation. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. In case of contact with eyes, flush repeatedly with water and contact a physician. Areas of skin contact should be promptly washed with soap and water. Do not take internally. Keep product out of reach of children. PRIOR TO USE, REFER TO MATERIAL SAFETY DATA SHEET.

We reserve the right to discontinue or change specifications or design at any time without prior notice and without incurring any obligation whatsoever.



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