CHEMfix
Construction Chemicals

Technical Datasheet

CHEMfix 920

Epoxy Resin Base Anchoring Grout

CHEMfix 920 is a two-component, 1:1 ratio, high-solids, epoxy-based adhesive for use as a high strength, non-shrink anchor grouting material for bolts & re-enforcement bars. **CHEMfix 920** meets or exceeds the requirements of ASTM C-881 specification for Type I, II, IV and V, Grade 3, Class B and C.

TECHNICAL INFORMATION	
Supply Form:	Thixotropic Paste
Density:	1.85 kg/Liter
Work Life:	45 Minutes at 30^0C
Touch Dry:	1-2 Hour @30^0C
Hard Dry:	4-6 Hours @30^0C
Full Cure :	7 Days

ADVANTAGES

- Rapid setting and strength achievement
- No expansion, no shrinkage
- Resistant to corrosion
- Resistant to vibration
- Shorter depth and smaller holes Reduced drilling costs

FUNCTION

The epoxy resin reacts with hardener to form a quick setting, non-expansive, non shrink system having extremely high strength, abrasion resistance and chemical resistance.

USES

- **CHEMfix 920** is ideal for high speed, high strength anchoring, holding down bolts for machinery, crane rails, railway tracks connected to concrete sleepers etc.
- **CHEMfix 920** can be used for rock bed anchors and fixing of marine equipment since it can be used for underwater operations.
- **CHEMfix 920** facilitates permanent installation of starter bars, base plates, lower anchors, foundation bolts etc.
- **CHEMfix 920** is ideal in reinforcement bar fixing.
- **CHEMfix 920** aids in protecting anchored bolts / rods in wet conditions, as in underwater.

METHOD OF APPLICATION

Hole Preparation:

The holes must be dust free and rough sided in order to realize maximum benefit out of **CHEMfix 920**. Rotary drilling with flushing by air or water is recommended. In case of holes drilled on parallel sides, they should be rough to provide sufficient anchorage. When holes are diamond drilled, they have to be under-reamed.

Bar Preparation:

All bars or bolts should be degreased and rust flakes are to be removed before use.

Mixing:

CHEMfix 920 may be easily mixed with a slow speed drill and mixing paddle. Mix Part A and Part B thoroughly in a pliable polyethylene beaker or similar to ensure uniform mixing to achieve the right consistency. Part mixing of units is also recommended for small applications. To avoid waste, only mix sufficient material for the work in hand.

PROPERTY	TEST METHOD	RESULTS
Consistency	ASTM C 881	Non-sag/ thixotropic paste
Heat deflection	ASTM D 648	136° F (58° C)
Bond strength (moist cure)	ASTM C 882	3,218 psi (2 days) 3,366 psi (14 days)
Water absorption	ASTM D 570	0.110% (24 hrs)
Compressive yield strength	ASTM D 695	5,065 psi (24 hours) 12,650 psi (7 days)
Gel time (75° F)	ASTM C 881	30 min - 60 gram mass 60 min - thin film

Storage

CHEMfix 920 will retain its properties for at least 12 months when kept in the original packing.

Packing

5 Kg Kit

Safety

Avoid contact with skin for prolonged period. Any contact with eye, wash immediately with plenty of water.

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