



LOW TEMPERATURE VINYL ESTER POURABLE GROUT

GENERAL

This material is a two component fast cure 100% Solids Pourable Vinyl Ester Resin Grout. It is recommended for setting bolts or dowels in concrete or rock and is suitable for either dry or surface dry conditions. Material cures from temperature of -20°C to 35°C. Material may be blended with a special aggregate mix for larger applications.

SURFACE

For maximum bond strength, all areas to be bonded must be clean, free of oil, grease, and other foreign material.

INSTALLATION

- Drill hole to proper length
- Use rotary percussive drilling equipment, not diamond drills.
- Clean hole of debris and dust.
- Mix the premeasured amounts of Resin, Catalyst and Aggregate.
- Fill $\frac{1}{3}$ to $\frac{1}{2}$ of hole with mix.
- Insert bolt or dowel, mix should rise to the top of hole. Top up mix if necessary.

STORAGE

Resin should be stored at temperatures between 10°C – 20°C. Storage at colder temperatures will result in thicker material consistency causing difficulty in pouring and slowing setting times.

POT LIFE

- At 20°C – 10 to 20 minutes
- At -20°C – 180 to 200 minutes

CURE TIME

Initial Set

- At 30°C - Approx. 15 minutes
- At 5°C - Approx. 60 minutes
- At -5°C - Approx. 200 minutes

Full Cure

- At 30°C - Approx. 4 hours
- At 20°C - Approx. 8 hours
- At -5°C - Approx. 16 hours



PHYSICAL PROPERTIES

(Unmixed) @ 25°C

Component 'B' (Hardener)	Benzoyl Peroxide Powder 50% active BPO
Component 'C'	Special Aggregate Mix

(Mixed A & B) @ 25°C

Specific Gravity	1.04
Viscosity	500 cps
Colour	Grey
Solids by Weight	100%
Pot Life 200g	12 mins
Pot Life 200g @ -20°C	90 mins

MOISTURE SENSITIVITY

Low temp. grout will adhere to surface dry concrete or rock. Free water should be blown dry. Best adhesion will be obtained on dry surfaces.

COMPREHENSIVE STRENGTH

Minimum – mixed with special aggregate – 70kn

MIXING RATIOS

	<u>Wt.</u>	<u>Vol.</u>
A	100	100
B	3	5
C	500	300

MIXING APPLICATION

The BPO catalyst should be added slowly to the resin while mixing with a slow speed mixer. Mix two minutes until a smooth homogeneous colour is produced.
Add special aggregate after mixing Resin and BPO.

Clean Up

Use the recommended cleaning solvent. The solvent is flammable and there must be no open lights, flames, sparking on stoves or open pilot lights in the vicinity. Equipment must be cleaned immediately after use.

AGEING OF CURED RESIN

The cured resin is completely resistant to acids and alkalis between pH2 – pH10.
There is no weakening even when constantly immersed in water. The cured resin will last as long as the surrounding substrate and will continue to protect that portion of the bolt to which it is bonded.



SHELF LIFE

Minimum of 6 - 9 months when stored at temperatures less than 25°C.

SAFETY & HANDLING

1. Resin may cause eye and skin irritation. If contact occurs, wash eyes or skin with water for 15 minutes. In case of eye contact, obtain medical attention.
2. Wear safety glasses and gloves when handling or installing.
3. Store in cool, dry, well ventilated area. DO NOT expose to sunlight or store at temperatures in excess of 35°C.

WARRANTY

Manufacturer warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on its technical bulletin when used in accordance with its directions.

Manufacturer makes no other warranty either expressed or implied. Buyer assumes all risk in handling.