

GENERAL PURPOSE GROUT

**NON-SHRINK
HIGH-FLOWABILITY
ECONOMICAL
NON-METALLIC**

PRINCIPAL USES

A dimensionally stable cement grout for highway barriers, fencing, tilt up construction, snap tie holes, pipe sleeves, manholes, sewers, door frames, pre-casting and patching. For critical applications under heavy machinery, turbines, generators, pumps, and pre-stressed work, refer to Five Star Grout 531MCI technical data sheet.

**INSTRUCTIONS:
SURFACE PREPARATION**

Clean all surfaces so as to be free of grease, oil and laitance. Surfaces should be prepared in accordance with 1 or 3 of "Surface Preparation Methods". Roughen concrete and cut edges to a minimum depth of 10mm to avoid feather edging. Saturate surface with water prior to mixing, then remove excess water before placing.

FORMING

Construct forms where needed and caulk to prevent leakage.

WATER REQUIREMENTS FOR 25KG BAG

For maximum strength use minimum amount of water. Do not exceed maximum recommended amount of water stated on the packaging.

MIXING

A moving blade mortar mixer is recommended. Add water to mixer followed by the grout. Mix for 5 minutes. Do not aerate.

PLACING

Do not mix more grout than can be placed within 40 minutes. Do not remix by adding more water. Place in a continuous operation. After setting, cut back or finish to final configuration.

CURING

Exposed surfaces should be moist cured with water saturated hessian for a minimum of 3 days or coated with Pro-Struct 610/601 diluted as per Curing Compound mix ratio to prevent excessive evaporation.

LIMITATIONS

- Protect from rain, wind and rapid evaporation for 24 hours after application.
- Do not allow grout to freeze after placement until desired strength has been obtained.

Construction practices dictate concrete foundation should achieve its designed strength before grouting.

April 2012 SA replaces April 2010 SA

(Pro-Struct 531M-GP)

TYPICAL PROPERTIES AT 25°C

Finish	Cementitious
No. of Components	1 Bag + Water
Compressive Strength ASTM C-109 Restrained	Min. water / 28 Days >30 MPa
Field Quality Control	Place a 12mm steel plate with anchor bolts over a freshly screeded test cylinder. NBEC will remain tight against the steel plate when lifted after 3 days, showing no shrinkage.
Application Temperature	5°C to 35°C
Yield	25kg yields ± 14 litres
Shelf Life	1 Year in original plastic shrink wrapped pallet, when stored in dry conditions. Individual bags have limited shelf life. High humidity will reduce shelf life.

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