

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, one will get segregation of the aggregate and shrinkage cracking.

MIXING

A moving blade mortar mixer is recommended. Add 4 litres water to mixer followed by the grout. Mix for 5 minutes and adjust the water level to the desired consistency. Do not aerate nor exceed 4,5 litres of water.

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, 5 litres diluted with 4,5 litres of water 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.

January 2014 SA replaces April 2012 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. |

CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES