

DENSO PANEL GROUT™

General Purpose Grout

Description

Denso Panel Grout is a Class A construction grout based on a blend of Portland Cement, high quality graded aggregates and additives, which control expansion whilst the grout is in a plastic state.

Uses

General purpose grout. Used for grouting under precast panels and concrete sections, anchor bolt filling, filling cavities, gaps and base infill, filling core holes created in panels by core drilling. Suitable for block work in core filling.

Features

- Shrinkage compensated
- Gaseous expansion while in plastic state eliminates shrinkage and settlement
- Can be dry packed, rammed, troweled or poured
- Non-metallic - eliminates staining
- Pumpable for larger applications
- Grouting from 20 mm to 150 mm in a single application

Application

The substrate to be grouted must be clean, sound, and free from dust, oil, grease, curing compounds or any foreign matter that will affect the grout adhesion bond. Bolt holes and anchor points must be clean and free of water.

All prepared areas must be saturated with water for a minimum of 4 hours prior to grouting. This will reduce the porosity of the substrate. Prior to grouting, ensure all excess water is removed and all holes must be free from water and no puddles of water present. If grouting under base plate, it is imperative that bleed holes or venting holes are provided.

Denso Panel Grout must be mechanically mixed with a high shear mixer or a suitable drum mixer that creates a forced action mixing. For smaller quantity mixing, an electric drill with a spiral mixing paddle is suitable. The speed drill should be approx. 500 - 600 rpm. Do not mix by hand. Always add the grout to the pre-measured water and mix for 3 - 5 minutes until a homogeneous mix is obtained. Add 2.7 - 2.9 L per 20 kg for dry pack/stiff consistency, 3.0 - 3.4 L per 20 kg bag for trowellable consistency, or 3.6 - 4.0 L of water per 20 kg bag for flowable consistency. Do not add additional water. Discard any grout that has stiffened or is unworkable.

On completion of grout application, all exposed grout should be cured in accordance to 'good practices' in concrete curing.



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TECHNICAL DATA

PROPERTIES	VALUE
Colour	Grey
Fresh Wet Density	2250 kg/m ³ (dry pack), 2220 kg/m ³ (trowellable), 2190 kg/m ³ (flowable)
Yield per Bag	10.3 L (dry pack), 10.6 L (trowellable), 11.0 L (flowable)
Bags per cubic metre	97 bags (dry pack), 94 bags (trowellable), 91 bags (flowable)
Expansion Characteristics	Expansion 1-2%, plastic state
Time of Expansion	Start 15 min, Finish 3 h
Bleed	0%
Young's Modulus	25 GPa
Setting Times (AS 1012.18, 20°C, 50% RH)	
Initial Set	1.5 h (dry pack), 3.0 h (trowellable), 4.5 h (flowable)
Final Set	2.5 h (dry pack), 4.5 h (trowellable), 6.5 h (flowable)
Compressive Strength - Flowable Consistency (AS 1012.9 and AS 2073, 20°C)	
Day 1	>20 MPa
Day 3	>30 MPa
Day 7	>40 MPa
Day 28	>55 MPa
Flexural Strength - Flowable Consistency (ASTM C348-86, 20°C)	
Day 1	>1.5 MPa
Day 3	>3.5 MPa
Day 7	>8.5 MPa
Day 28	>9.5 MPa
Bond Strength (ASTM C882-1987)	>5 MPa (7 day), >10 MPa (28 days)

SHELF-LIFE: Minimum 9 months

STORAGE: Store between 10°C and 40°C in a cool, dry area and away from heat and direct sunlight.

CLEANING: Clean equipment immediately after use with a water soluble brush cleaner.

HEALTH AND SAFETY: Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See safety data sheets for further information.

PACKAGING: 20 kg bag



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