

Multi Purpose Non-Shrink Cementitious Grout

Description	<p>Cem Grout 20, is a partially non-shrink & self leveling, premixed ready to use cementitious grout for general civil engineering works, it's provides extended working life & high early strengths.</p> <p>Due to its new formulation, Cem Grout 20 product is based on selected high grade of Wearing Course Mineral, Original Portland Cement Type II & Rheological Additives. For better workability of smoother, pumpability, & stabilized air voids.</p>
Recommended	<ul style="list-style-type: none">• Machine Plate Foundation• Columns & Slab Precast Construction• Bridge Bearing Pad• Anchor Bolt Nut & Bars• Patch Repair Works• Infill Gap Joints
Features Advantages	<p>Flowable & Self-Leveling High Early Strength Impart & Vibration Resistance Non-Corrosive Non-Toxic Chloride Free Extended Working Life Dual Expansion System Stabilizer Air Voids Smoother & Pumpability</p>
Method of Application	<p><u>Surface Preparation</u></p> <p>Precise and efficient surface preparation is essential to achieve the high adhesive qualities of Cem Grout 20. All concrete and mortar substrates must be sound, clean and free from oils, grease and surface contaminants. All loose materials and surface laitance must be removed. For large areas, grit or grit-water blasting or scabbling is recommended. For small areas and for "spot" repairs, needle gunning or brush-hammering is effective. The concrete or mortar substrate must have a minimum compressive strength of 20MPa. If in doubt test with a "Schmidt Hammer".</p> <p>The prepared substrate should be thoroughly soaked with clean water until uniformly saturated but with no surface water. This condition is referred to as saturated surface dry and care should be taken to remove any cement slurry or dust produced during surface preparation. The use of a "fan" shaped water jet is ideal. Steel reinforcements should have all traces of rust removed and be primed.</p> <p>The Cem Grout 20 and surrounding areas can be further treated with Cem Seal (Cement Base Waterproofing) to provide a water and carbonation resistant finish</p>
Priming on Concrete:	<p>Prior to application of Cem Grout 20, should be applied as a bonding agent. Always work "wet on wet" on priming coats Cem Strength Primer (Note: in some cases the require priming)</p>

Priming on Reinforcement

Two coats of **Cem Strength Primer** should be brush applied to the prepared steel.

Application

The mixed material is poured onto the prepared floor surface and spread

Typical Yeild

Technical Data

Stiff Consistency

Cem Grout 20	25.00 kg/bag	80 bags x 25 kg
Water	3.0-3.5 litre	240-280 litre
Volume of Mortar	12.2-12.6 litre	1/m ³

Pourable Consistency

Cem Grout 20	25.00 kg/bag	75 bags x 25 kg
Water	3.8-4.2 litre	304-336 litre
Volume of Mortar	13.0-13.4 litre	1/m ³

Flowable Consistency

Cem Grout 20	25.00 kg/bag	70 bags x 25 kg
Water	4.0-4.5 litre	320-360 litre
Volume of Mortar	13.2-14.1 litre	1/m ³

Mix Design	Stiff Water Content	Pourable Water Content	Flowable Water Content
Temperature	25 °C	25 °C	25 °C
Initial Setting Time (hour : min)	3 : 30	3 : 30	4 : 30
Expansion at 24 hours	0.06%	0.39%	0.65%
Compressive Strength			
1 day	51 N/mm ²	47 N/mm ²	30 N/mm ²
3 day	62 N/mm ²	57 N/mm ²	46 N/mm ²
7 day	78 N/mm ²	74 N/mm ²	62 N/mm ²
28 day	90 N/mm ²	81 N/mm ²	70 N/mm ²
Flexural Strength			
7 day	7.8 N/mm ²	6.6 N/mm ²	5.9 N/mm ²
28 day	8.9 N/mm ²	8.5 N/mm ²	7.9 N/mm ²

Cleaning of Equipment

All tools and mixing containers should be washed and cleaned in water immediately after use before the material sets.

Packaging

Net weight 25 kg set

Storage Shelf Life

Cem Grout 20, 9 months if stored in dry conditions.

Handling Precautions

Wash off any mortar or latex on the skin before it dries. During mixing and application ensure adequate ventilation since the latex component contains ammonia which is volatile and may cause eye watering in confined spaces. Avoid generation of airborne dust during mixing. Cem Grout 20 powder contains more than 20% Portland cement and, therefore, in line with current legislation, is classified as irritating to eyes and skin. For this reason the following precautions should be observed:-

Avoid contact with the skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and keep the product out of the reach of children.

The General Term & Conditions

All recommendations for use of our product, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for this intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefore. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

The above mentioned details Specified key data are individually checked throughout, guarantee, and included in the certificates of Analysis (CoAs). & Typical key data are spot checked, the value are typical for the product and are indicated for information only. The values are not guaranteed or included in the CoAs.

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