CEM-PMG Polymer Modified Grout

GENERAL PURPOSE NON-SHRINK GROUT

Description

CEM-PMG Polymer Modified Grout is a cementitious premixed ready to use polymer modified grout. CEM-PMG Polymer Modified Grout is composed of good quality cement, properly graded fillers and chemical additives which gives controlled expansion in the plastic state and simultaneously minimizing the water demand. The low water demand ensures high early strength. The graded fillers ensure a homogeneous mix and a consistent grout.

Areas of Application

- . It can be used for the grouting of machine base plates, upright bar/post or a frame forming a support or barrier.
- It is used as a non-shrink grout to eliminate the shrinkage when completely filling the gaps between the structural member and the substrate.
- It can also be used for anchoring of anchor bolts, fence posts, pipe sleeves etc.
- It is used for the repairing of damaged RCC elements such as columns, beams, slab bottom and concrete substrates etc.
- It is used for de-laminated concrete surfaces sidewalks, driveways etc.

Features & Benefits

- It is suitable for overhead surfaces due to high bonding strength.
- Prepackaged material ensures proper batching of all the ingredients.
- It can be used for multipurpose application on horizontal, vertical and overhead surfaces.
- It does not contain metallic iron to cause staining.
- Develops high early strength without the use of chlorides.
- High ultimate strength and low permeability ensures the hardened grout is durable.

Method of Application

1. Surface Preparation

- Clean the surface and remove the loose concrete, dust, oil, paint, grease, waterproofing layer etc.
- If the concrete surface is defected or has laitance, it must be cut back to a sound base.
- Bolt holes, fixing pockets must be air blown clean of any foreign matter.
- The are should be pre-soaked prior to grouting, any free water should be removed before grouting.
- If base plates are used then it should be free from oil, grease, or any other scales.
- The formwork should be leakproof, it can be done by using sealants between the joints.

2. Mixing

- It is advisable to use a mechanical grout mixer.
- When large quantities are to be mixed a slow speed paddle mixer can be used.
- The selected water content should be accurately measured and poured into the mixer.
- CEM-PMG Polymer Modified Grout should be slowly added to the water and continuous mixing should be done for at least 4-6 minutes. This will ensure a smooth and even consistency grout.

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3. Placing

- Place the grout within 15 minutes as soon as the mixing process is complete.
- Pouring of the grout should be done from one side so as to avoid the air and balance water to get entrapped.
- For placing large volumes of CEM-PMG Polymer Modified Grout, pumping can be done.

4. Curing

- Once the grouting is done, the exposed areas should be thoroughly cured.
- Curing shall be done for 7 days, if curing with plastic sheet or hessian cloth.

Precautions & Limitations

- It should not be used without proper formwork.
- For bolt holes and anchor bolts it can be used in unrestrained condition.

Technical Information

Sr. No.	Properties	Results
1	Appearance	Grey
2	Mix Ratio	5.60 : 1 (P : W)
3	Trowellable	3.0 - 3.75 litres per 25 kg bag
4	Flowable	4.0 – 4.75 litres per 25 kg bag
5	Pot Life	20 Minutes

Sr. No.	Test	Results	Test Methods
1	Wet Density (Kg/m^3)	2300.00	
2	Compressive Strength (N/mm^2)		
a	1 day	26.00	BS EN 196-1 BSS EN
b	7 days	55.00	BS EN 196-1 BSS
c	28 days	66.00	BS EN 196-1 BSS
3	Flexural Strength (N/mm^2)		BSS
a	28 days	>10.00	BS EN 196-1 BSS
4	Time of Expansion (Mins)		
a	Start	20.00	
b	Finish	135.00	
5	Modulus of Elasticity (N/mm^2)	>21500.00	ASTM C 469-02
6	Expansion Characteristics (%)	Up to 1.25	ASTM C 940-98A

*# The values obtained are from our laboratory testing conditions. Tests conducted on site conditions may show slight variations due to methods of testing/application. **

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Packaging 25 Kg HDPE lined Paper Bag**.**

Shelf Life & Storage 6 months from date of production, if stored properly in unopened sealed dry condition.

Health & Safety Precautions

- CEM-PMG Polymer Modified Grout is a cementitious alkaline product.
- Prolonged contact with the skin should be avoided.
- Any eye contamination should be washed immediately with plenty of clean water and medical advice sought.
- CEM-PMG Polymer Modified Grout is Inflammable

Other Products Available

Tile Fixing Adhesives I Tile Grouts I Block Joining Mortar I Readymix Plaster I Ruff Tuff Textures I Industrial Grade Hardener I Decorative Colour Hardener I Neutral & Colour Release I Sealers I Epoxy Resins I Concrete Admixtures I Paints & Allied Products

Limited Warranty

This product is warranted to be of uniform quality within manufacturing tolerances. Since no control is exercised over its use, no warranty expressed or implied is made as to the effect of such use. Sellers and manufacturers obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective.

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