

CICO GROUT-V1/100

PREMIXED ULTRA HIGH STRENGTH NON-SHRINK CEMENTITIOUS GROUT

CICO GROUT-V1/100 is chloride free cement based corrosion inhibiting free flowing grout that develops early ultra-high compressive strength. CICO GROUT-V1/100 was developed in answer to the disadvantages of existing grout mixtures. Its wide acceptance and extensive test indicate that CICO GROUT-V1/100 is a proven and established product of excellent quality.

CICO GROUT-V1/100 Conforms to ASTM C 1107/C 1107M – 08 and ASTM C827-01a – 2005.

USES

CICO GROUT-V1/100 is used and specified by major utilities like steel projects, paper mills, highway departments and machinery and turbine manufacturers far and wide. CICO GROUT- V1/100 is a proven international ultra-high strength grout where very high vibration and impact resistance is required.

- Controlled expansion ensures positive surface contact.
- High early strength facilitates rapid installation and early operation.
- No rusting, staining on exposed edges.
- Free from chloride compound ensures non-corrosive property.
- Highly impervious characteristics provide greater durability to installed structure.
- Very easy to use- addition of water only needed.
- Reliable- produced under rigid quality control.

ADVANTAGES

- Has controlled expansion and is guaranteed not to shrink.
- Limited expansion is necessary to ensure a rigid monolithic bond between machinery and foundation.
- V1/100-GROUT has a measured volumetric expansion, within 24 hours it is completely stable, neither shrinking nor expanding.
- Provides a full bonding strength and is resistant to high impact and vibration without shattering.
- V1/100-GROUT is water and oil resistant and non-corrosive.
- Has an extremely high adhesive and pull-out strength.

- An anchor bolt (diameter 25 mm) grouted 20 cm deep, has a pull-out resistance of 144 kg/cm².
- Withstands great fluctuations of moisture, dryness, heat and cold.
- Reduces about 60%-80% of bearing failures on machinery of rolling mills.

TECHNICAL DATA

Granulometry	0-4mm
Water –Powder Ratio	0.10 to 0.14
Compressive Strength, N/mm² at 30°C, 24 hours (W/P=0.12, flowable mix)	50
3 days	70
7 days	80
28 days	90
90 days	100
Tensile Strength, N/mm² at 28 days	>12
Yield (CICO GROUT-VI powder required), kg/m³	2100±100 depending on water used in the mix.
Free linear Expansion, % by volume	0.4 to 1.5
Grouting height, mm	20-120
Chloride content	Nil (as per BS 5075 Part-I)
Shelf Life	12 Months in packed sealed condition

INSTALLATION ADVANTAGES

- CICO GROUTV1/100 is guaranteed a constant continually controlled mixture. Pre-mixing at the factory under strict quality control that requires no complicated job-site mixing or skill, other than the addition of water.
- Facilitates easy handling and storage. CICO GROUT-V1/100 is protected in a vapour barrier bag that prevents exposure to the elements.
- Eliminates shrinkage, has flowable consistency, good workability and excellent void filling action (self-leveling).
- Is ready to use and allows ample time for finishing work.
- Can be poured, poked, pumped, dry-packed and rammed. If V1/100-GROUT is poured or vibrated into place there is no segregation.
- Is cement coloured and non-staining.
- Can be pumped through small nozzles over great distances.
- Contains no harmful chemicals.

METHOD OF APPLICATION

CICO GROUT – V1/100 is ready for use, requiring only the addition of water. Before placement the surface should be thoroughly cleaned and wet. Care must be taken to ensure that grease and oil are removed. In order to reach the required consistency 4-5 litres of water to 1 bag /40 kg CICO GROUT-V1/100 are needed. First add 2/3rd amount of the total mixing water. Mix for a short time, and then add the balance quantity of mixing water. Proceed to mix for about 4-6 minutes. In order to prevent voids apply grout from one side or corner only.

GENERAL INFORMATION

CICO GROUT –V1/100 will reach a compressive strength 500 kg/cm² within 24 hours and will increase to approximately 800 kg/cm² within 7 days.

Higher temperatures accelerate the setting time whereas lower temperatures will retard the time of reaching its compressive strength.

For example when having temperature of +40 C there would be delay of 24 hours before the initial compressive strengths are reached.

Opens areas are to be protected against pre-mature water evaporation.

Retains its decisive advantage not to shrink and to have a high adhesive bond even in such an extreme mixture.

PACKAGING

25 kg waterproof HDPE bag

STORAGE

Keep in dry cool place in sealed conditions.

HEALTH AND SAFETY

Alkaline in nature. Prolong contact with bare skin may cause irritation.

Important Note:

All CICO products are sold in the market after strict Quality Control in line of ISO 9001 and guaranteed against any manufacturing defect. Although the basic formulation of Company's products generally remains unchanged, production refinements arising from continuing research and evaluation program may occasionally result in marginal changes in properties. CICO aspires to ensure that any recommendation, advice, test data, specification, method statement and other information given in this product datasheet is accurate and best of company's knowledge. Since, the company (CICO TECHNOLOGIES LTD) has no control over the selection of its product, applicators, application methodology, how and where it is applied, therefore, the company cannot accept any liability directly or indirectly arising from the use of its product. It is important to any customer, user or specifier satisfies him / herself that the product is suitable for the intended purpose including health, safety and environmental aspect. Unless or otherwise agreed in writing, all products of the company are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. All customers, users, specifiers should ensure that they examine the suitability of the product with company's latest product data sheet.

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