

CEMTEC HI-MOD GROUT

NON-CATALYZED METALLIC GROUT

CEMTEC HI-MOD GROUT is a factory-blended, non-shrink grout for use in critical applications. It incorporates the latest technological advances in shrinkage prevention and internal reinforcement. It is virtually non-staining and, therefore, useful in many aesthetic applications. The expansion of **CEMTEC HI-MOD GROUT** is not dependent upon, nor accompanied by oxidation of metallic aggregate, nor is the expansion dependent on the liberation of gas.

CEMTEC HI-MOD GROUT is internally reinforced with specially processed iron aggregate for exceptional durability under heavy duty loading.

PRIMARY APPLICATION

- Heavy duty grouting of machinery and equipment
- Structural columns
- Crane rails
- Bridge seats
- Bearing plates
- Anchorages

FEATURES / BENEFITS

- Non-shrink - positive expansion
- Stable iron aggregate - edges will not ravel
- Does not contain added chloride
- Easily placed at fluid consistency

PACKAGING / YIELD

CEMTEC HI-MOD GROUT is packaged in 25 kg bags. One bag of **CEMTEC HI-MOD GROUT** mixed with 4 liters of water will yield 0.012 m³ of fluid grout.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Test method CRD-C-621

Fluid consistency

4.2 Liter water to 25 kg bag of grout

Flow : 25 seconds on Flow Cone Method CRD-C-611

	Expansion %	Compressive Strength
1 day	---	3,500 psi (24 MPa)
3 days	+0.06	5,000 psi (34 MPa)
7 days	---	6,500 psi (45 MPa)
14 days	+0.06	---
28 days	+0.06	7,000 psi (48 MPa)

SPECIFICATIONS / COMPLIANCES

- Meets the requirements of CRD C-621, Corps of Engineers Specification for Non-shrink Grout.

- Shows positive expansion when tested in accordance with ASTM Specification C-1090, Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout.
- Meets the performance requirements of ASTM C-1107, Grade C, combination volume adjusting grout standard specification for packaged dry, hydraulic-cement grout (non-shrinkable).

DIRECTIONS FOR USE

The contractor and engineer are encouraged to consult and review the CMCI bulletin "Application Instruction-Cementitious Grouting". The document offers instruction detailing the general installation of manufactured cement-based grout products. The information given here is offered in particular support to the mixing and placing of **CEMTEC HI-MOD GROUT**. This information should be used in conjunction with the Application Instructions guide mentioned above.

General Information -

Mixing -

Required Consistency	Estimated Water Content (liter/bag)
Fluid	4.0
Flowable	3.6
Plastic	3.2

Do not use a flow cone rate of less than 20 seconds if checking flow rates on the job site (see CRD-C-611 of ASTM C-939 for flow cone method).

Where **CEMTEC HI-MOD GROUT** will be placed at a thickness over 51 mm, up to 9.1 kg of pea gravel may be added to each bag of grout. Note that the water demand to achieve a certain flow level of the grout will change. Do not add sufficient water to promote bleeding of the grout.

Placing - CEMTEC HI-MOD GROUT sets more rapidly than plain mortars; therefore, place quickly and continuously. If placing this product in hot weather, use of cold water will increase the working time.

Curing and Sealing - Proper curing procedures are important to ensure the durability and quality of the grout. Wet cure the grout until the forms are stripped. Then, cure the grout with a high solids curing compound, such as CEMTEC KURE N SEAL XTRA or KURECOTE 75 VOX XTRA as described in the general grouting Application Instruction guide.

"High Quality Construction Chemicals"

CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES
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Curing compound must be ordered separately.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- Do not use with any admixtures or fluidifiers
- Proper curing is required
- Employ cold weather and hot weather grouting practices as the temperature dictates.
- Do not use material at temperatures that may cause premature freezing.
- Do not use as a topping.

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.