

APPLICATION INSTRUCTION

CEMENTITIOUS GROUTING

The following instructions detail the general installation procedures for grouts manufactured by CMCI. The contractor and engineer are encouraged to consult the individual product's technical data sheet regarding possible additional suggestions for successful installations.

These installation are written specifically for **DURA DRY GROUT, CEMTEC HI-FLOW GROUT, CEMTEC HI-MODE GROUT and CEMTEC NS GROUT.**

GENERAL GUIDELINES

Careful preparation is a must for a successful grouting operation.

Cold weather retards strength gain and set time. Hot weather accelerates setting time and causes premature drying of the grout. Hot or cold water will be used to overcome the above problems.

DIRECTIONS FOR USE

Surface Preparation - Surfaces to be grouted should be clean and free from rust, grease or oil. Determine work schedule and method of placing grout, then prepare strong, properly braced and oiled forms to retain the grout and provide relief holes, if needed

Saturate the area to be grouted with water until it is uniformly damp and remove excess water just before placing the grout.

For pouring, allow a minimum clearance of 50 mm for entry and 150 mm minimum grout head. On the placing side, slope the form to assist in grout movement and to prevent trapping air. Do not have close fitting forms, allow 25 mm horizontal clearance and 25 mm vertical clearance for height above the bottom of the baseplate. Forming must provide for venting to avoid entrapment of air. (see figure 1).

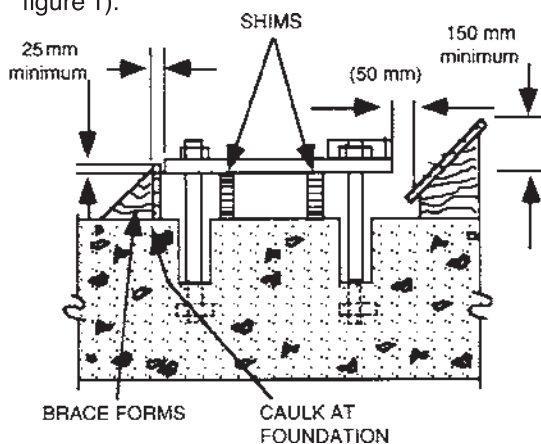


figure 1 Forming suggestions

Mixing - Consult the particular grout's individual data sheet for the proper amount of mixing water to be mixed with the grout.

Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer or concrete mixer for large jobs. Add the appropriate amount of clean, potable water for the batch size and then add the dry grout showing to prevent lump formation. Mix for a minimum of 2-3 minutes. The flow of the grout should be checked (for fluid lump, use a flow cone) and care shall be taken to ensure the grout will not bleed with the amount of water that has been added.

The mixed grout should be quickly transported to the grout head box and placed immediately. The grouting shall be continuous to avoid the formation of air pocket and for better flowability. (Head boxes are typically used for flowable and fluid grouts.

DURA DRY PACK GROUT does not usually require a head box.) The amount of time the contractor has to place the grout varies from product to product. Consult the particular grout's individual data sheet for the time allotted.

Do not add sand or cement to the grout since this may significantly change the grout's characteristics.

Placing - Some grouts set more rapidly than plain mortars, therefore, place quickly and continuously. Carefully control the water content to be sure excess water is not added forcing the grout to bleed.

Place all grout from one side only to assure complete filling of the space being grouted. Use a rod or strapping to assist in placement on large or difficult placements. Use a hopper to provide a constant head of grout and to assure a continuous flow into place.

Hand placing must be done with sufficient water to produce a plastic flowable consistency to assure hydration and strength development of the grout. For dry pack applications, use **DURA DRY PACK GROUT.**

CURING

As soon as the sheen of water disappears and the grout has begun to stiffen, pond with water or cover with wet rags, burlap or plastic to prevent premature drying. The forms may be removed as soon as the grout has stiffened or set sufficiently to prevent sagging away from the bottom of the baseplate. Cut back shoulders and finish to desired texture where required or desired.

Following the cut back, seal all surfaces with two (2) coats of a high solids curing compound such as CEMTEC KURE N SEAL XTRA or KUREKOTE

75 VOX XTRA. After the curing compound has dried, keep all surfaces wet by sprinkling the surface of the curing compound with water and covering with burlap or polyethylene for a minimum of 72 hours.

PRECAUTIONS/LIMITATIONS

- Proper curing is required.
- Do not add admixtures or fluidifiers
- Employ cold weather or hot weather grout practices as the temperatures dictate.
- Do not use as a topping.
- Should cracking may occur on wide shoulders, improperly cured shoulders, or at stress points such as shimpacks bolts or plate stiffeners. These cracks are of no structural significance.

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.