

V-1 PREMIUM NON-SHRINK GROUT APPLICATION INSTRUCTIONS

All grouting should be done following established concreting procedures in accordance with the recommendations of the American Concrete Institute. The following general instructions should be modified to meet the site constraints and environmental conditions present at the time of the pour. Consult Unisorb for instructions for specific conditions.

Preparation: All grout contact surfaces must be cleaned of all oil, grease, scale, etc. Unsound concrete should be chipped out, leaving surface rough.

ALL GROUT CONTACT SURFACES SHOULD BE PRESOAKED THOROUGHLY FOR 24 HOURS PRIOR TO GROUT PLACEMENT.

This action will ensure that the existing foundation does not pull water from the newly placed grout at a rapid rate, which could interfere with proper curing. Excess standing water should be removed prior to grout placement. This presoaking requirement is equally important when working with either old or new "green" foundations because both will take moisture from the grout.

Forming: The method of forming must provide for rapid and continuous placement of grout. Adequate clearance for grout placement and head must be provided. Forms should be watertight. A minimum grout thickness of 1" is recommended. Increase head box size and/or grout thickness as required to flow grout under equipment. Compartmentalize as required.

Mixing: Grout can be mixed in a concrete mixing pan or in an adequate type power mortar mixer. To meet the requirements of ASTM C-1107 Type C: **USE FROM 3.0 TO 4.3 QUARTS (Approx 2.8 to 4.1 LITERS) OF WATER PER 48 POUNDS (21.77 Kg) OF V-1.** For stiffer mixes, start at 2.6 quarts per bag, and increase water until desired consistency.

Mix as follows: Add 2/3 of water requirement, add grout – mix partially – add remainder of water – mix thoroughly for 2 – 3 minutes, or until completely mixed.

Pea Gravel: When exceeding a thickness of 2" to 3", pea gravel should be added. Use 3/8" Pea Gravel, 1 part gravel to 2 parts grout by weight. (One 50# bag of pea gravel for two bags of grout). See the instructions in the "Unisorb Grouting Products Application & Specification Guidelines".

Placement: Grout can be placed by pouring or pumping. If needed, the grout be rodded thoroughly or vibrated to minimize the possibility of air being trapped. **Place grout from one side of the cavity so that it flows to the adjacent and opposite sides uniformly.**

Working Time: V-1 grout will maintain fluidity properties for 30 to 60 minutes or more. Grout will continue to flow for extended

periods under base plates if followed by more grout with rapid and continuous placement.

Curing: Forms may be removed after initial set. At this point final finishing may be done. No capping or painting is required.

For proper curing of grout, **PREVENT RAPID WATER LOSS BY COVERING WITH WET RAGS FOR 3 TO 7 DAYS AFTER INITIAL SET.**

CURING, SEALING AND BONDING COMPOUNDS. Consult factory for specific application information.

TEMPERATURE CONSIDERATIONS

The higher the temperature, the faster the set; the lower the temperature, the slower the set. Normal winter and summer concreting procedures should be observed in temperatures below 45°F (7°C) and above 90°F (33°C).

SPECIAL PROCEDURES FOR LOW TEMPERATURE

1. Store bagged grout in warm dry place (70°F/21°C) before use.
2. Raise bedplate and foundation temperature with steam, infrared heaters, etc. before the grout is placed.
3. Pre-heat the mix water, not to exceed 140°F (60°C).
4. After grout is placed, cover the material to retain warmth. The warm water will hasten the initial setting time. However, under extreme conditions, initial development of compressive strength will not occur rapidly.
5. Keep area heated as required to maintain the desired cure rate. Do not allow grout to freeze until cured.

SPECIAL PROVISIONS FOR HIGH TEMPERATURE

1. Store grout in a cool location.
2. Provide shade for areas to be grouted.
3. Use cool or cold mixing water to lower the temperature of the grout.
4. Placed grout should be protected from hot sun.
5. It is very important to prevent rapid water loss by covering with wet rags for 3 to 7 days after initial set.

Every reasonable precaution is taken in the manufacture of Unisorb V-1 Premium Non-Shrink Grout, as well as in the compilation of the descriptive and performance data. To the best of our knowledge, all of the information presented is correct and the product as sold is satisfactory for the applications described. However, no guarantee of results using this product and data is given since we cannot anticipate every possible variation in the methods of their use or the conditions under which they are applied.

WARNING! Cement products can dry, irritate and damage eyes, skin and mucous membranes. Hypersensitive individuals may develop an allergic dermatitis and respiratory tract irritation.

PRECAUTIONS: When wetted with water, cement products can cause alkali burns without warning. No heat is sensed. Limit exposure with the use of barrier creams, gloves, and protective clothing including dust mask and goggles in dusty environments.

FIRST AID: For eye contact, flush with running water for at least 15 minutes, call physician. For skin contact, wash exposed skin with soap and water and remove soiled clothing. Obtain medical treatment if any irritation persists. If ingested, do not induce vomiting. Have individual drink plenty of water. Obtain medical treatment immediately. **USE CAUTION IN DISPOSING OF EMPTIED BAGS.**

24 HOUR EMERGENCY TELEPHONE NUMBER 1-800-255-3924.
REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER INFORMATION.
MSDS IS AVAILABLE AT www.unisorb.com