

V-1 PREMIUM NON-SHRINK GROUT

APPLICATION INSTRUCTIONS

All grouting should be done following established concrete placement 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 the surface rough. Review the **TEMPERATURE CONSIDERATIONS** section while planning the pour.

ALL GROUT CONTACT SURFACES SHOULD BE PRESOAKED THOROUGHLY FOR AT LEAST 24 HOURS PRIOR TO GROUT PLACEMENT AND LEFT SSD (SATURATED SURFACE DRY) IMMEDIATELY PRIOR TO PLACING THE GROUT.

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 a headbox must be provided. Forms should be watertight. The minimum grout thickness is 1" (25mm). 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 mortar mixer, or in a bucket with a high-power, low-RPM, corded drill mixer. To meet the requirements of ASTM C-1107: **USE FROM 3.1 TO 4.3 QUARTS (Approx 2.9 to 4.1 LITERS) OF POTABLE WATER PER 48 POUNDS (21.77 Kg) OF GROUT.** For stiffer mixes, start at 2.6 quarts (2.5 liters) per bag, and increase water until desired consistency is achieved. For a flowable mix, begin at 4.0 quarts (3.8 liters) and adjust the water appropriately. In all cases, precise measurement of the water being used is a requirement.

Mix as follows: Add 3/4 of the water requirement, add grout – mix thoroughly – slowly add remainder of water until the desired flow is achieved – mix thoroughly for 2 – 3 minutes, or until completely mixed.

Pea Gravel: When exceeding a thickness of 2” to 3” (51 to 76 mm), pea gravel should be added. Use 3/8” (9.5 mm) Pea Gravel, 1 part gravel to 2 parts grout by weight. (One 50# bag of pea gravel for two bags of grout). Refer to Unisorb Technical Bulletin GB-0136-1.1 (latest revision) for details on adding pea gravel to V-1.

Placement: Grout can be placed by pouring or pumping. If needed, the grout can 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 to prevent air from being entrapped under the equipment.**

Working Time: V-1 PREMIUM 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: For proper curing of grout, **PREVENT RAPID WATER LOSS BY COVERING WITH WET RAGS FOR 3 TO 7 DAYS AFTER THE INITIAL SET.**

No finishing is required but may be done prior to the final set. Do not remove forms until the final set so that grout does not slump from under the equipment. No capping or painting is required.

CURING, SEALING AND BONDING COMPOUNDS. Consult UNISORB 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 concrete placement 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 a warm dry place before use.
2. Raise bedplate and foundation temperature before the grout is placed.
3. Pre-heat the mixing 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 the grout to freeze prior to curing.
6. It is very important to prevent rapid water loss by covering the grout with wet rags for 3 to 7 days after initial set.

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 the grout 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. 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.



DANGER: Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation.

Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. If swallowed: Immediately call a poison center/doctor. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and containers in accordance with all local, regional, national, and international regulations.



This product can expose you to silica, (Crystalline, quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

24 HOUR EMERGENCY TELEPHONE NUMBER 1-800-255-3924.
REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER INFORMATION.
SDS IS AVAILABLE AT WWW.UNISORB.COM