

S-300 EPOXY SETTING ADHESIVE

PRODUCT DESCRIPTION:

S-300 is a 100% solids epoxy setting adhesive. S-300 is recommended for use on horizontal or vertical surfaces. Ideal for green marble and other marble products that are affected by setting products that contain water. S-300 is designed for applications that require high shear bond and good compressive strength. This product will not bleed through marble. S-300 is easy to mix and is water cleanable. Meets or exceeds requirements of A118.3 for epoxy adhesive.

USES:

S-300 epoxy adhesive is suitable for interior and exterior installations. S-300 is recommended for installing marble or ceramic tile over existing ceramic tile, fiberglass laminates, exterior grade plywood, steel, cured concrete, cured plaster, drywall, terrazzo, masonry surfaces and cementitious backerboard. S-300 has superior chemical resistance to dilute acids, household cleaners, food processing residues, fats, deicing salts, gasoline and diesel fuel.

LIMITATIONS:

Not recommended for continuous exposure to ACETIC ACID 10%, LACTIC ACID 5%, MEK, TOLUENE OR XYLOL. Not recommended for installation at temperatures below 50°F.

Continuous exposure to temperature above 230°F is not recommended.

TECHNICAL DATA Physical Properties:

Hardness after 48 hrs. (Shore D)	60-80
Linear shrinkage, %	0.00
Shear bond strength, psi (ANSI-A118.3 E5.5.2) 7 days	2065
Shear bond strength, psi (tile) bonded to plywood 7 days (plywood fails)	315
Compressive strength, psi (ASTM C-579)	6500
Pot life at 72°F, mins.	30-40
Cure time at 72°F, hrs.	less than 12
Adjustability, hrs.	2.0-2.5
Open time, hrs.	1.5-2.0
Sag using 4" x 4" x 1.2" quarry tile	0.0

Chemical Resistance Chart:

R = Recommended N = Not Recommended

Type:	Intermittent:	Constant:
Citric Acid 10%	R	R
Sulfuric Acid 10%	R	R
Hypochloric Acid 10%	R	R
Lactic Acid 5%	R	N
Vinegar	R	R
Acetic Acid 10%	R	N
Nitric Acid 10%	R	R
Sodium Hydroxide 10%	R	R
Sodium Chloride 10%	R	R
Detergents	R	R
Sugars	R	R
Gasoline	R	R
Cooking Oils	R	R
Turpentine	R	R
Mineral Spirits	R	R
Toluene	N	N
Xylo	N	N

INSTALLATION:

Substrate: Substrate shall be prepared in accordance with ANSI A108.4. Surface to receive S-300 must be dry and free of sealers, coatings, paint, oil, grease, dirt and dust.

Application/Mixing: S-300 furnished in 2 parts (A&B) and exact proportion and thorough mixing are essential for satisfactory curing and performance. Transfer Part B into the can of Part A and mix thoroughly for 5 minutes, scraping the sides and bottom of the can to assure complete mixing. Mixing may be accomplished by hand or with a power mixer. If mixing with a power mixer, use low speed, taking care not to generate excessive heat in the mix that will shorten open time. When less than a full unit is mixed, use 5 parts by weight of Part A to two parts by weight of Part B.

At recommended working temperatures (70°-80°F) S-300 is easy to work; the normal working life is 60 minutes. At temperatures from 80° to 90°F, the working life is reduced and tile must be set immediately. At temperatures from 60° to 70°F, it becomes harder to spread and curing time is lengthened. S-300 is a thermal setting epoxy with a short pot life (30 minutes), so material should be removed from mixing container immediately after mixing and spread onto working surface. Discard material that has begun to set.

Spread the mixed adhesive on surface to be tiled with a notched trowel large enough to give 100% coverage when tile is pressed into adhesive. Use a 1/16" x 1/16" square notched trowel for dot mounted or pregrouted ceramic mosaics on a smooth floor surface. A 1/8" x 1/8" V-notched trowel should be used for back mounted ceramics, shallow ribbed back tile, smooth backed tile on rough floor surfaces and smooth surface wall installations. A 1/4" x 1/4" V-notched trowel is required for rough wall surface or floor installations using heavy ribbed back quarry tile or pavers. Allow 16 hours to elapse before grouting.

On highly absorbent surfaces, such as dry porous concrete or cement asbestos board, use a very thin skim coat prior to the notched trowel application. Setting should then be completed within 1/2 hour after mixing. Protect from all traffic for 40 hours and heavy traffic for 7 days.

PROTECTING NEW TILEWORK:

To avoid damage to finished tilework, schedule floor installations to begin only after all structural work, building enclosure, and overhead finishing work, such as ceilings, painting, mechanical and electrical work are completed. Keep all traffic off of finished tile floors until it has fully cured, or provide up to 3/4" thick plywood protection over Kraft paper to protect floors before installation materials have fully cured.

COVERAGE:

Sq. ft./unit, using 1/8" V-notched trowel 40-60

CLEAN-UP:

Final clean-up, use Scotch-Brite pad and plenty of cool to warm (not hot) water.

PACKAGING:

S-300 epoxy adhesive is available in 1 gal. units.

SPECIFICATIONS:

Material: Setting mortar shall be S-300 as manufactured by Summitville Tiles, Inc., Summitville, Ohio. For setting all types of ceramic tile on horizontal surfaces and up to 4-1/4" x 4-1/4" ceramic tiles on vertical surfaces, where setting application requires high bond strength. When completely cured, S-300 shall be resistant to dilute acids, alkalies and exhibit superior physical properties.



Summitville[®]

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