

S-600 100% SOLID EPOXY ADMIX FOR S-700 SANDED GROUT

PRODUCT DESCRIPTION:

S-600 is a three part 100% solids epoxy compound for setting and grouting of floor brick, quarry tile, porcelain, pavers and ceramic mosaics. It is designed to resist attacks by many acids, alkalies, and other chemical compounds that normally break down concrete mortars and grouts. S-600 has been designed to be mixed with any of the colors of S-700 and S-710 sanded grout or S-667 unsanded grout. Since S-600 changes the base S-667, S-700 and S-710 color, please check color samples to insure desired color results. S-600 is recommended for use in commercial and residential kitchens, chemical laboratories, breweries, dairies, food processing plants, etc. where high exposure levels of organic acids are not present. S-600 is sag resistant and should be specified for setting or grouting ceramic tile on any wall or floor installations. S-600 not only has exceptional bond strength (greater than 1000 P.S.I.) but it will remain rigid and cohesive at temperatures up to 350°F.

WORKING CHARACTERISTICS:

S-600 is ideally installed at temperatures from 70° to 80°F. At higher temperatures, the pot life, open time and clean-up time are reduced; however, it is more fluid and easier to work. At lower temperatures these factors are reversed. Working surface temperatures can vary from room temperature and should be taken into consideration. Do not begin application of S-600 until the temperature of the room and substrate is above 50°F and rising. Maintain a temperature of 60°F or higher during the curing period. S-600 may be stored at low temperatures. Before use, S-600 must be stored at room temperature for at least 24 hours.

Temperature	Pot Life	Open Time	Clean-Up Time	Set Time
60°F (16° C)	1½ hrs.	3½ hrs.	1½ hrs.	24-30 hrs.
75°F (24° C)	1 hrs.	2¼ hrs.	1 hr.	16-24 hrs.
90°F (32° C)	½ hr.	1½ hrs.	½ hr.	12-14 hrs.

SURFACES: Recommended for use on all normal surfaces including plywood. Surface to receive S-600 must be structurally sound, dry, free of sealers, coatings, oil, dirt and dust. New masonry surfaces should be sufficiently cured to comply with preceding conditions. It is advisable to brush all surfaces with a stiff brush to remove any loose material that may be encountered. Consult the Tile Council "Handbook for Ceramic Tile Installations" for specific setting descriptions.

MIXING: S-600 is furnished in 2 parts and requires the appropriate size of S-700 or S-710 as part "C", the filler/colorant. Exact proportioning and thorough mixing of the parts with one another is absolutely essential for satisfactory curing and performance. See packaging instructions. Before weighing from containers, mix each part thoroughly to ensure uniformity within the part. Empty contents of parts A and B into mixing bucket and mix to uniform color and consistency. Gradually add part C powder and mix thoroughly using either hand tools or a slow spin power mixer. (e.g. bucket mixer) Mix until all part C is uniformly wetted, smooth, and free of lumps. *Care must be taken to avoid whipping air into this mix.* It is recommended that complete units be mixed at a time; however, if necessary to split a unit, weigh out three parts A, one part B, and 8 parts of S-667, S-700 or S-710 as part C by weight, not by volume. Clean tools with warm soapy water immediately after use.

SETTING:

Full coverage of the setting material on the back of the tile is desirable to prevent broken and cracked tile. The National Tile Contractors Association recommendation to accomplish full coverage is as follows: Apply mortar to substrate using the flat side of the trowel to fill any voids and "key" the material to the substrate. Using the proper sized notched trowel, comb the mortar evenly in one direction only. Do not "swirl". Set the tile in the mortar with the edge of the tile parallel to the comb lines. To remove air voids, push the tile back and forth in the mortar perpendicular to the comb lines.

AS A SETTING MORTAR: Spread mixed S-600 with a notched trowel, then set tile. Use a 1/8" notched trowel for ceramic mosaics to achieve a 1/16" bed. Use a 1/4" notched trowel for smooth or shallow ribbed pavers providing a finished bed of 1/8". Use a 1/4" x 3/8" square notched trowel for heavy ribbed back tile such as quarry tile.

Once the S-600 begins to set, it should be discarded, as proper bonding will not be accomplished. Allow 16 hours at 75°F to elapse before grouting tile.

AS A GROUT: With a firm straight edge rubber trowel (Grout Master) force as much S-600 into joints as possible, using sufficient pressure and flow to avoid air pockets or voids. Before the S-600 loses its plasticity, remove excess with rubber trowel in a squeegee fashion working diagonally to joints to facilitate removal without pulling material from joints.

CLEAN-UP:

For initial clean-up, use a white plastic scrub pad and a lot of clean water. Avoid water migration into ungrouted joints. Warm water with a few drops of a mild soap added will speed clean-up. Change cleaning water often to avoid leaving a sticky film on the tile. Do not leave standing water on uncured epoxy joints after initial cleaning. Perform final clean up after 10 hours but before 24 hours. Use a white scrub pad and soap and water. Clean completely, as S-600 is difficult to remove after it cures for over 24 hours. Wide tile joints may have a slight concave appearance after grout cure. Cover with kraft paper and plywood after final clean up to protect from other construction debris during cure period.

CAUTION:

Protect from dirt and all traffic for 16 hours, heavy traffic and dirt for 48 hours. Do not grout in direct sunlight. Cure S-600 a minimum of seven days at 70°F before chemical exposure.

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.

PACKAGING:

A one-gallon unit requires 8 pounds of S-667, S-700 or S-710 as part C filler. A three-gallon unit requires a 25-pound bag of S-667, S-700 or S-710 part C filler.

COLORS:

Frost 510, Natural 562, Arctic White 511, Almond 515, Castle 519, Buckeye 524, Taupe 526, Brownstone 531, Mexican Sand 535, Chocolate Chip 540, Seashore 541, Driftwood 544, Sahara Tan 545, Deerskin 549, Fudge 552, Juniper 557, Golf Green 560, Mushroom 564, Nutmeg 565, Gunpowder 566, Burlap 567, Silhouette 568, Iron Grey 569, Silver Gray 570, Smoke 571.

SPECIFICATIONS:

Material: Setting mortar and tile grout shall be S-600, a three-component mix consisting of specially graded silica aggregate (#7 on M.O.H. Scale of Hardness), color-fast pigments, a special blend of activating hardeners and liquid epoxy resin, and free of water and organic solvents; as manufactured by Summitville Tiles, Inc., Summitville, Ohio. The material in the mixed state shall not allow tile to sag on vertical surfaces and in the reacted state shall remain rigid and cohesive in temperatures up to 350°F. Acid and alkali resistant epoxy mortar and grout shall meet or exceed ANSI A118.3 and Tile Council of America AARII-HT, as approved by the United States Department of Agriculture.

Color: Color shall be # _____.

COVERAGE:**Grout Coverage Charts**

Grout Coverage: Floor Tile

Tile Size	*S-600 / S-700 Joint Width			
	1/8"	1/4"	3/8"	1/2"
1" x 1" x 1/4"	28	14	8.75	7
2" x 2" x 1/4"	56	28	17.5	14
3" x 3" x 1/4"	84	42	26.3	21
4" x 4" x 1/4"	112	56	35	28
4" x 4" x 3/8"	75	37.5	23.4	21
4" x 4" x 1/2"	56	28	17.5	14
4" x 12" x 1/2"	97	49	30.3	24
4" x 8" x 1/2"	79	40	25	20
4" x 8" x 3/4"	53	27	20	13
4" x 8" x 1"	40	20	15	10
4" x 8" x 1 3/16"	33	17	12	8
4" x 8" x 1 3/8"	29	15	11	7
4" x 8" x 1 1/2"	26	13	10	7
4" x 8" x 2 1/4"	18	9	7	5
5" x 10" x 3/4"	66	33	25	17
5" x 10" x 1 1/2"	33	17	12	8
6" x 6" x 1/4"	168	84	52.5	42
6" x 6" x 3/8"	112	56	35	28
6" x 6" x 1/2"	84	42	26.3	21
6" x 6" x 3/4"	56	28	17.5	14
6" x 9" x 3/4"	69	34.5	21.6	17
6" x 12" x 5/16"	190	95	59.4	45
6" x 12" x 3/8"	158	79	49.4	37
8" x 8" x 5/16"	179	89.5	55.9	45
8" x 8" x 3/8"	149	74.5	46.8	37
8" x 8" x 1/2"	112	56	35	28
8" x 8" x 1"	56	28	21	14
10" x 10" x 5/16"	224	112	70	56
12" x 12" x 5/16"	269	135	84.1	67
12" x 12" x 3/8"	224	112	70	56
12" x 12" x 1/2"	168	84	52.5	42
12" x 18" x 5/16"	329	165	103	77
12" x 18" x 3/8"	274	137	85.6	65
13" x 13" x 5/16"	291	146	90.9	68
16" x 16" x 3/8"	299	150	93.4	70

*S-600 / S-700 coverage is in sq. ft. per gallon. S-600 requires 25 lbs. of S-700 per 3 gallon unit.



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