



S-2200 SELF-LEVELING UNDERLAYMENT

PRODUCT DESCRIPTION:

S-2200 is a selected blend of cement, aggregate and other materials, that when mixed with water becomes a liquid material that seeks its own level and produces a smooth flat surface. When mixed and placed appropriately, S-2200 sets fast, does not crack, shrink or spall and is water-resistant. S-2200 has excellent adhesion, abrasion resistance, impact resistance, tensile strength and flexural strength properties. S-2200 is easy to install, may be poured or pumped and can be walked on after 2 to 4 hours. With S-2200, floor coverings may be installed 12 to 14 hours after installation under normal conditions. The flow spread of S-2200 is 20". Suggested self-leveling practice is to pour the product and rake the pour to promote even leveling, or use a draw bar such as Summit-Tools Level-Rite expandable grading level. S-2200 must be used with SP-888 Primer only. Other primers and latexes are not to be substituted.

USES:

S-2200 is used to level floors prior to installing ceramic tile, slate, carpet, resilient flooring, athletic floors, wooden parquet, etc. S-2200 may be used over prepared old concrete, quarry tile, ceramic tile, terrazzo, cut back and adhesive residue, old wooden floors, steel decking and epoxy coatings.

LIMITATIONS:

S-2200 is designed for indoor installations. S-2200 CANNOT BE INSTALLED BELOW 40°F. Moisture sensitive floor covering and adhesive should not be applied until S-2200 reaches a low moisture emission level. Water or fresh mortar cannot be added to S-2200 that has started to set. Surface must be protected from low humidity, high humidity and temperatures below 40° F including slab temperature, high room temperatures or sun exposure. As soon as surface can be walked on, it should be covered. Heating systems should be turned down before applying and must remain below 75° F during cure. Before applying, check moisture vapor of slab to ensure low vapor.

TECHNICAL DATA (Typical):

Water demand	26.5% by weight
Flow Ext.	
Initial	8.5 inches
After 15 minutes	8.8 inches
Working time	40 minutes
Initial set	55 minutes
Final set	65 minutes
Density	1.92 G/CC
Healing (subjective)	
Initial	Very Good
Final	Good
24 hour tensile strength	140 PSI
24 hour compressive strength	1500-2000 PSI
24 hour abrasion resistance	0.3
(G. lost) (20 KG for 5 min.)	
7 day tensile strength	400 PSI
7 day compressive strength	2500-3000 PSI
7 day abrasion resistance	0.2
(G. lost) (20 KG for 5 min.)	

INSTALLATION:

Tools: When installing S-2200, use a CLEAN mixing container, heavy duty 1/2" electric drill (300 RPM), mixing paddle, long handled gauged spreader and smoother for feather edging, etc. **NOTE:** wearing of cleated shoes is recommended to prevent leaving marks in the freshly poured surface.

Substrate: Substrate must be structurally sound, free of all dirt, dust, oil, wax, curing compounds, release agents, efflorescence and loose debris before application of primer. All surfaces must be primed with SP-888 before application of S-2200. **IMPORTANT:** Follow directions on SP-888 primer container. Wooden subfloors must be firm and rigid with a minimum thickness of 1". Floor deflection must meet or be better than ANSI A 108 and Tile Council of North America requirements and recommendations including live and dead load. Patch holes and cracks and re-nail any loose boards. Staple 1/4" galvanized diamond metal lath to the floor. Apply SP-888 primer according to primer directions. Test areas should be performed when installation is over cut back and other adhesive residues.

Mixing: Pour 5 – 5.5 quarts of water into clean container and then slowly add 1 bag of S-2200 while mixing with heavy duty 1/2" electric drill at approximately 300 RPM. Mix thoroughly for 2 minutes to obtain a lump-free consistency. DO NOT over water or over mix because this will cause product to have lower strength. Excessive water will cause non-cure, swelling, cracking, heaving and white surface haze.

APPLICATION:

Allow mixed batch to set 2 to 3 minutes before pouring. Pour or pump S-2200 and spread in place, as required with gauged spreader. Use spreading tool for touch up and feather edging. If a second or finish coat of S-2200 is required, it should be installed immediately after the first layer has set to walkable hardness. If the first layer has been allowed to dry, re-prime the surface with SP-888 primer before second layer is applied.

CAUTION:

Per ANSI A 108.02, Do not install tile in areas where the temperature is not maintained above 50°F (10°C) or the temperature is above 100°F (38°C). Mortar, substrate, tile, brick and stone temperatures must all be maintained between 50°F (10°C) and 100°F (38°C) before install and until cure is completed. Working time will be reduced at high temperatures and sun exposure. Metal lath must be used over wood sub floors—minimum thickness of S-2200 is 1/4". For areas where the thickness of the underlayment will exceed 1/2", it is recommended mixing S-2200 with water, then add 1/2 part by volume of well washed and graded fine gravel size 1/8" to 1/4". If aggregate is wet, reduce the amount of mixing water to prevent over watering. 1/3 part by volume of clean, dry, coarse sand may be used in place of specified fine gravel. Only 1" of S-2200 can be applied per pour.

CURING:

S-2200 will dry to walkable hardness in 2 to 4 hours. Most floor coverings may be installed 12 to 14 hours after pour. S-2200 should be protected to prevent rapid water loss under hot, dry or windy conditions.

COVERAGE:

One bag of S-2200 will cover approximately 60 sq. ft at 1/8" thickness.

CLEAN-UP:

Clean tools and equipment with water before S-2200 dries.

COLOR:

Color shall be #960 Gray.

PACKAGING:

S-2200 is available in 50 pound bags.

SPECIFICATIONS:

Material: S-2200 shall be a self-leveling underlayment consisting of cement blends, aggregates, accelerators, water retention agents, anti-staining agents and adhesion-promoting agents as manufactured by Summitville Tiles, Inc., Summitville, Ohio.