



S-1150 ANTI SAG MULTI PURPOSE MORTAR

PRODUCT DESCRIPTION:

S-1150 is a premium quality multi-purpose mortar formulated to provide excellent anti-sagging properties for setting all oversized non moisture sensitive ceramic body tile including all porcelain and veneer stone in a vertical application. S-1150 is formulated with a specifically engineered powdered latex system designed to provide superior bond and shear strength, freeze-thaw resistance, and a post cure reduction in water absorption. S-1150 can be used in both interior and exterior applications. S-1150 meets or exceeds ANSI A118.1, A118.4 and A118.11. S-1150 is available in #910 White.

SUBSTRATES:

Suitable substrates include the following materials that must meet all ANSI A108, Tile Council of North America (TCNA), National Tile Contractors Association (NTCA), Methods and Materials Standards Association (MMSA), International Building Code (IBC), and International Commercial Code (ICC) requirements; structurally sound properly installed and prepared and fully cured masonry slabs, mortar bed, CBU, tile over tile, securely attached and properly cleaned vinyl tile, and properly installed exterior grade plywood (interior, non-wet areas only).

TECHNICAL DATA: Physical Properties

<u>Shear Data</u>	<u>PSI Avg</u>	<u>Compression Strength</u>	<u>PSI Avg</u>
7-Day Quarry Sheer	220		
14- Day Quarry Sheer	265	7-Day	1780
28- Day Quarry Sheer	290	28- Day	2230
7-Day Quarry to Plywood Sheer	175		
14- Day Quarry to Plywood Sheer	220		
28- Day Quarry to Plywood Sheer	230		
7-Day Mosaic Sheer	210		
28- Day Mosaic Sheer	245		
7-Day Porcelain Sheer	225		
28- Day Porcelain Sheer	235		
7-Day Porcelain to Concrete Sheer	310		
28- Day Porcelain to Concrete Sheer	490		

Open time of up to 30 minutes @ 73°F and 50% RH.

Pot life approximately 80 to 90 minutes @ 73°F and 50% RH.

Coverage:

<u>Trowel Size</u>	<u>Trowel</u>	<u>Square ft/bag</u>
1/4" x 3/8"	U-Notch	50-60
1/4" x 1/4"	Square Notch	70-80
1/2" x 1/2"	Square Notch	30-35

LIMITATIONS:

High temperature or low humidity will reduce open time up to 15 minutes. All traffic should be kept off tile for 48 hours when used as a floor mortar. Grouting operations should not be performed less than 24 hours after setting when used as a wall mortar. This product is not to be used with moisture sensitive stones, marble, etc. When installing porcelain pavers over plywood, flooring must be exterior grade plywood in interior non-wet areas only that meets ANSI, TCNA, NTCA, MMSA, IBC, and ICC guidelines. Plywood may be an improper substrate in some cases due to the physical limitations of the plywood surface for holding large bodied tile. Contact Summitville if you have any questions. Floor deflection is not to exceed ANSI, TCNA, tile or stone manufacture guidelines, mortar manufacture guidelines, and all applicable building codes.

INSTALLATION:**Substrates:**

All substrate preparation and tile installation must be in accordance with the Tile Council of North America's Handbook for Ceramic, Glass, and Stone Tile Installation ANSI, NTCA, MMSA, IBC, and ICC guidelines and requirements to insure proper performance and longevity of the installation.

Mixing:

S-1150 should be mixed with clean, cool potable water only. Add enough water to S-1150 to give it a paste like consistency which is easy to trowel but stiff enough not to induce sag. (Approx 5.5 to 5.75 quarts of water per 50-lb bag) Mix using a *slow* speed revolving bucket type mixer or a similar mixer. *Do not mix at high speed.* Remix after slaking for the appropriate time (normally 10 minutes) and add more water or S-1150 powder if necessary. *Note:* For extremely large body tile, improper consistency of the mix could cause the tiles to slip, do not over-wet the mix.

Application:

Trowel only that area which can be set in 15-30 minutes at ~ 70°F, taking temperature and humidity into consideration. Allow troweled mortar to stand for 3 minutes before setting tile; however do not let the mortar skin-over. Extremely high temperatures or low humidity can reduce the open time by up to 15 minutes. The pot life of this product is approximately 80-90 minutes at ~70°F.

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.

AVAILABLE COLORS:

S-1150 #910 White

CAUTION:

Per ANSI A108.02, 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. **JOB FAILURES WILL OCCUR FROM SETTING TILE ONTO THIN SET WHICH HAS "SKINNED".** Check any mortar which has been on the substrate longer than 10 minutes ~ 70°F by pressing a tile lightly but firmly onto the troweled ribs of mortar. Remove tile and check tile back for transfer and coverage. If proper coverage is not obtained, recomb the mortar and retest, or remove and trowel new material. **ALL TRAFFIC SHOULD BE KEPT OFF THE TILE FOR 48 HOURS WHEN S-1150 IS USED AS A FLOOR MORTAR. GROUTING SHOULD NOT BE PERFORMED LESS THAN 24 HOURS AFTER SETTING WHEN USED AS A WALL MORTAR.**

PACKAGING:

S-1150 is available in 50 LB. Bags.

PROTECTING NEW TILE WORK:

To avoid damage to finished tile work, 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 floor until mortar has fully cured, or provide up to 3/4" thick plywood protection over Kraft paper to protect floors before installation materials have fully cured.

CLEAN-UP:

Clean spills and tools with water. (Warm water with a small amount of detergent will expedite clean-up operation).