

PRODUCT DESCRIPTION

PORCELAIN STONE & TILE 948 (PST 948) is specifically formulated to provide a durable bond to porcelain, stone and glass tile. It is a high- solids blend of flexible acrylic additives which can be added to both standard or fast-setting dry-set mortars including PERMABOND® 902, THINSET 911 and PERMABOND® FASTSET 904. It provides the highest bond strength available in a flexible mortar for all types of tile over a variety of substrates. Even difficult substrates including exterior grade plywood, vinyl and old cutback adhesives can be bonded to with PST 948.

▶ BASIC USE

PST 948 is used as a dry-set mortar additive in lieu of water to produce a bond coat for setting absorptive, semi-vitreous, vitreous and impervious tiles including porcelain and glass mosaics, for service in residential, commercial and industrial use. It is suitable for interior and exterior use in a mortar bed as thin as 3/32" (2.4 mm) after tiles have been properly embedded. PST 948 modified dry-sets have increased flexibility, excellent impact resistance and greatly reduced water absorption which weakens normal bonding material when subjected to freezing conditions. They are also water cleanable and non-flammable. PST 948 modified dry-set mortars are not affected by prolonged contact with water after curing, but do not form a waterproof barrier.

▶ AREAS OF USE

Suitable backings, when properly prepared, include plumb and true masonry, concrete with a deflection of not more than 1/240 of the span, cementitious backer units, cured Portland cement mortar beds, brick, ceramic tile, marble, terrazzo and vinyl flooring tile. In interior dry areas only, it can be used over gypsum board, exterior grade plywood and properly prepared old, cutback adhesive residue. (See Technical Bulletin #102.)

▶ LIMITATIONS

PST 948 must not be used over asphalt sheeting, vinyl covered wallboard, cushion backed or perimeter bonded vinyls, Masonite®, cement asbestos board, metal or plastic. Improperly cured or wet plywood, luan plywood, particle board or stripwood surfaces are not considered suitable substrates. Use in temperature range above 40°F (4°C). Do not allow mortar to freeze for the first 72 hours. Some green or red marbles may warp when installed with setting materials containing water causing loss of bond and/or damage to the finish. These marbles must be set with COLORSET EPOXY 931.

▶ APPLICABLE STANDARDS

When mixed with C-Cure's dry-set mortars, conforms to requirements for dry-set mortars found in ANSI A108.5, ANSI A118.4 and ANSI A118.11

Color — White.

Texture — Free-flowing liquid.

▶ PACKAGING

2 gallon (7.5 L) and 4 gallon (15.1 L) containers and 55 gallon (208 L) drums.

INSTALLATION

▶ PREPARATORY WORK

All surfaces on which tiles are to be set must be structurally sound and not subjected to temperatures below 40°F (4°C) or above 100°F (38°C). Detailed installation procedures may be found in the TCA Handbook and ANSI A108.5. All surfaces must be dry and free of all grease, oil, dirt, dust, curing compounds, sealers, coatings, gypsum based underlayment and any other foreign matter. Old cutback adhesive that is loose must be scraped off.

▶ CEMENTITIOUS SUBSTRATES

Cleaning may be accomplished via mechanical sanding, scraping or chipping. Surfaces may be cleaned with muriatic acid if thoroughly flushed and neutralized. (*Use proper precautions.*) Smooth, steel troweled concrete surfaces must be roughened to ensure a good bond. It is advisable to dampen dry porous concrete before installing ceramic tile with PST 948 mortar. Do not leave puddles or standing water on surfaces.

▶ WOODEN SUBSTRATES

All wooden flooring should be of a design and thickness that will not allow deflection to exceed 1/360 of the span, including live and dead load. Further, the floors to receive the PST 948 should be exterior grade plywood only, secured with screw-type nails and glued where possible. A gap of 3/16" (4.8 mm) shall be left between sheets of plywood and between the plywood edges and all materials which they abut to allow expansion. These gaps shall remain empty when the installation is complete. In addition, all wooden surfaces must be for interior use only and protected from exposure to water.

▶ EXISTING TILE SUBSTRATES

It is absolutely essential that the existing substrate, tile or vinyl flooring, be well bonded. The surface must be prepared in accordance with the requirements for cementitious substrates. It is also necessary to abrade the surface to assure proper bonding.

NOTE: Do not abrade vinyl asbestos tile, use a liquid stripper.

▶ EXPANSION JOINTS

Shall be installed in accordance with local building codes. See E3171 in TCA Handbook for detailed specifications. Expansion joints, control joints and cold joints shall never be bridged with setting material.

▶ MIXING AND INSTALLATION

C-Cure dry-set powders should be added to PST 948 liquid at the rate of approximately 2 gallons (7.6 L) per 50 lb. (22.7 kg) bag. Begin by adding one handful of powder to the liquid, mix and let stand for one minute. Then add the additional powder slowly while mixing thoroughly until smooth and let mortar slake for 15 minutes. Mechanical mixers must be 300 RPM or lower to avoid entraining air which will substantially weaken the mortar. The proper mortar consistency is such that when applied with a notch trowel to the substrate, the ridges formed in the mortar will not flow or slump. Do not retemper after slaking period. Do not use mortar after initial set in bucket. During use, remix mortar occasionally.

▶ APPLICATION

Spread mortar with flat side of trowel to key into substrate; then apply additional mortar and notch trowel in one direction to a depth sufficient to leave enough mortar to give 100% contact with back of tile and a subsequent mortar bed of 3/32" to 3/16" (2.4 to 4.8 mm.) With high lug tiles, "back buttering" may be required to ensure 100% coverage of back of tiles. During the setting of tile, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made.

It is also required that tiles be embedded sufficiently to obtain good transfer of mortar to tile and for proper alignment. Do not adjust tiles in mortar after they have been set past 20 minutes.

NOTE: As a practical test, it is recommended that three (3) or more separate 12" square (.3 m²) areas of tile be bonded to the properly prepared surface with the actual tile and bonding materials that will be used on the finished installation. These should be allowed to cure for three (3) to seven (7) days and then removed with a hammer and chisel. At this point, one can determine if adequate bond has been obtained or if a problem exists.

▶ CLEANING

Water is all that is needed to remove uncured mortar.

► CURING AND GROUTING

A minimum cure is obtained in 24 hours, depending on ambient temperatures. Grouting can be done before the mortar takes its final set if caution is used not to break the plastic mortar bond to the tile. Normal grouting should be done 48 hours later. When used to install tile in an area that will be continually wet (e.g. swimming pools, gang showers, etc.) it is recommended that the complete installation shall be cured a minimum of 14 days and allowed to thoroughly dry before exposure to water.

► WARRANTY

PST 948 is included in C-Cure's Ten Year System Warranty. For terms and conditions see Warranty Document #CCW10.

Porcelain Stone & Tile 948

Flexible Acrylic Latex Admixture — EGP

PORCELAIN STONE & TILE 948 TECHNICAL DATA

TEST	REQUIREMENT	DRY-SET WITH PORCELAIN STONE & TILE
A. Bond Strength Non Vitreous Tile	ANSI A118.4 28 Days >150 psi (11 kg/cm ²)	>300 psi (25 kg/cm ²)
Vitreous Tile	28 Days >300 psi (21 kg/cm ²)	>400 psi (28 kg/cm ²)
Vitreous Tile (over wood)	28 Days N/A	250 psi (18 kg/cm ²)
B. Compressive Strength ASTM C-109	28 Days >3000 psi (211 kg/cm ²)	>3500 psi (246 kg/cm ²)
C. Water Absorption	ANSI A118.4 N/A	<4.0%
D. Safety—Reasonable care and cleanliness in handling this latex will prevent any adverse health effects. In case of eye exposure or skin contact, thoroughly flush with water. If any ill effects should occur, get medical attention promptly.		
KEEP OUT OF REACH OF CHILDREN		
E. Storage Life—One year if kept in sealed containers, stored in a dry area. Protect from freezing during storage.		

GUARANTEE

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