

**Polymer-Modified Portland Cement Mortar
For Vertical Installations****PRODUCT DESCRIPTION**

MULTICURE® NONSAG 906 is a polymer-modified, dry-set mortar formulated to hold large tile and marble units in place on vertical surfaces. It may also be used on horizontal surfaces. MULTICURE NONSAG 906 is used as a bond coat for setting absorptive, semi-vitreous and vitreous tiles on vertical surfaces for service in residential and commercial use. It is used for mortar bed as thin as 3/32" to 3/16" (2.4 to 5 mm) after tiles have been twisted or embedded. MULTICURE NONSAG 906 has excellent water and impact resistance, is water cleanable, non-flammable, and requires no soaking of tiles. MULTICURE NONSAG 906 mortar is not affected by prolonged contact with water, but does not form a waterproof barrier. MULTICURE NONSAG 906 provides a permanent installation with higher bond strength, and allows vertical installations to be completed with substantial savings on materials and labor when compared with normal dry-set mortars. MULTICURE NONSAG 906 is designed for interior or exterior use.

▶ AREAS OF USE

Suitable backings, when properly prepared, include plumb and true masonry, concrete, cementitious backer units, cured Portland cement mortar beds, brick, ceramic tile and marble. It may be used over gypsum board and exterior grade plywood in interior dry areas.

▶ LIMITATIONS

MULTICURE NONSAG 906 must not be applied directly over asphalt sheeting, vinyl covered wall board, Masonite®, cement asbestos board, metal, glass, plastic, luan plywood or gypsum mortar beds. Improperly cured or wet plywood, particle board, or strip wood surfaces are not considered suitable substrates. 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. Apply in temperature range of 40°F to 90°F (4°C to 32°F). Do not allow mortar to freeze for the first 72 hours. Not recommended for setting green, black or resin-backed marble. Use COLORSET EPOXY 931.

▶ APPLICABLE STANDARDS

Conforms to requirements for latex Portland cement mortars found in ANSI A108.5, A118.4, ANSI A118.11.

▶ PACKAGING

50 lb. (22.7 kg) bags.

INSTALLATION**▶ PREPARATORY WORK**

All surfaces on which tiles are to be set must be dry, structurally sound, and not subject 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. Surfaces must be dry and free of all grease, oil, dirt, dust, curing compounds, sealers, coatings, efflorescence, old adhesive residues, gypsum based underlayments and any other foreign matter.

▶ CEMENTITIOUS SUBSTRATES

Cleaning may be accomplished via mechanical sanding, scraping or chipping. Surfaces may be cleaned with C-CLEAN 985 (Sulfamic Acid) if thoroughly flushed and neutralized. (Use proper precautions). Smooth, steel troweled concrete floors must be roughened to ensure a good bond. It is advisable to dampen dry porous concrete before installing ceramic tile with MULTICURE NONSAG 906. Do not leave puddles or standing water on surfaces.

▶ NON-CEMENTITIOUS SUBSTRATES

Surfaces such as stripwood and old plaster or painted surfaces that provide bonding problems should be covered with a cleavage membrane topped with a 3/8" to 3/4" (9.5 to 19 mm) reinforced mortar bed for walls and a 1 1/4" (32 mm) reinforced mortar bed for floors. After a minimum of 20 hours, the dry-set mortar may be applied to the mortar bed.

▶ PLYWOOD SUBSTRATES

All wood flooring, when placed over conventional floor joist or other systems, should be of a design and thickness so as to maintain a substrate of deflection not to exceed 1/360 of span, including live and dead load. Further, the area to receive the MULTICURE NONSAG 906 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 for 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.

▶ CERAMIC TILE SUBSTRATES

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

▶ MOVEMENT JOINTS

Expansion joints shall be installed in accordance with local building codes. See EJ171 in TCA Handbook for detailed specifications. Expansion joints, contraction joints and construction joints shall never be bridged with setting material.

▶ MIXING

MULTICURE NONSAG 906 dry powder should be added to clean, potable water only at the rate of approximately 1 1/2 gallons (5.7 L) per 50 lb. (22.7 kg) bag. Mix thoroughly until smooth and let mortar slake for 15 minutes, then remix. If a mechanical mixer is used, it must be done at a low RPM (150) to avoid entrapping air into the mortar. Do not add water, latex or additional powder after slaking period. 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 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 to a depth sufficient to be notch with a suitable trowel that will leave only 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 to 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 to obtain good transfer of mortar to tile and for proper alignment. Do not adjust tiles in mortar after they have been set past 10 - 15 minutes.

NOTE: As a practical test, it is recommended that three (3) or more separate 12 inch square (.3 m²) areas of tile be bonded to the properly prepared surface with the actual tile and bonding material 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.

▶ COVERAGE

Approximately 77 sq. ft. per 50 lb. bag (7.1 m²/22.7 kg) when applied with a 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square-notch trowel.

► **CLEANING**

Water is all that is needed to remove uncured mortar.

► **CURING AND GROUTING**

A minimum cure is obtained in 12 - 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.

MultiCure® NonSag 906

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MULTICURE NONSAG 906 TECHNICAL DATA				
TEST			REQUIREMENT	TYPICAL VALUES
*A. Open Time @ 70°F (21°C)				12 Minutes
*B. Adjustability @ 70°F (21°C)				12 - 15 Minutes
*C. Bucket Life @ 70°F (21°C)				8 Hours
D. Compressive Strength ASTM C-109				>3200 psi (225 kg/cm ²)
E. Shear Bond ANSI A118.1				
Non-Vitreous Tile	7 Days	>300 psi (21 kg/cm ²)	>600 psi (42 kg/cm ²)	
	28 Days	>300 psi (21 kg/cm ²)	>800 psi (56 kg/cm ²)	
Vitreous (Paver) Tile	7 Days	>200 psi (14 kg/cm ²)	>300 psi (21 kg/cm ²)	
	28 Days	>200 psi (14 kg/cm ²)	>450 psi (32 kg/cm ²)	
Non-Vitreous Tile (over wood)	7 Days	N/S	>250 psi (18 kg/cm ²)	
	28 Days	N/S	>300 psi (21 kg/cm ²)	
F. Safety—CAUTION: May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approved mask for Silica dust. Contains Portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water, and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.				
KEEP OUT OF REACH OF CHILDREN				
G. Storage Life—One year if kept dry in sealed bag.				

*These values reflect the results of practical testing methods closely associated with applications in the field.

GUARANTEE

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C-CURE

Seal Beach, CA 90740

800-895-2874

www.c-cure.com