



PRODUCT PROFILE

GENERIC DESCRIPTION	Methylmethacrylate Acrylic/Hydrophobic Fumed Silica
COMMON USAGE	Conformal Stain is a penetrating, solvent-based masonry stain for horizontal concrete and virtually all vertical, above-grade concrete, precast, GFRC, exposed aggregate, stucco, terra cotta, brick and block masonry. The treatment does not alter the natural texture of the surface, nor significantly affect the vapor transmission qualities of the substrate. Conformal Stain exhibits excellent color stability and is designed not to peel or flake when applied to a properly prepared substrate. Repels water when used on dense substrates.
COLORS	Conformal Stain is available in 18 standard colors. Custom color matching is available. A semi-transparent finish may be achieved by blending Conformal Stain with Conformal Clear; this will allow exposed aggregate to remain visible while rendering color uniformity to the matrix. Please contact your Chemprobe/Tnemec representative.
PERFORMANCE CRITERIA	Contact your Chemprobe/Tnemec representative for specific test results.
LIMITATIONS	Conformal Stain is not formulated for use on smooth-troweled horizontal and below-grade surfaces. It is not intended to seal visible cracks or as a substitute for repointing defective mortar joints. Conformal Stain must not be applied to damp or wet surfaces and is not intended to provide water-repellency on CMU and other porous substrates. Porous vertical substrates must first be treated with Prime-A-Pell or Dur A Pell if water-repellency is desired. The depth of penetration achieved is dependent upon the density of the substrate. When changing the color of a dark colored or porous substrate, two or more applications may be necessary. Conformal Stain is not designed for use on garage floors or smooth concrete surfaces. Do not use below grade or on a horizontal surface that may be subjected to hydrostatic pressure.

COATING SYSTEM

SYSTEM	Conformal Stain effectively repels water from dense surfaces such as precast panels and may be used in conjunction with solvent-based Prime-A-Pell or Dur A Pell on vertical surfaces to achieve water-repellency on porous surfaces.
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SURFACE PREPARATION

CONCRETE	Allow new concrete to cure 28 days. Verify dryness by testing for moisture with a "plastic film tape-down test" (Reference ASTM D 4263). Should moisture be detected, perform "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (Reference ASTM F 1869). Moisture content not to exceed three pounds per 1,000 sq ft in a 24 hour period. Abrasive blast, shot-blast or mechanically abrade to remove laitance, form release agents, curing compounds, sealers and other contaminants and to provide surface profile. Large voids, bugholes and other cavities should be filled with recommended filler or surfacer (Reference SSPC-SP13, ICRI CSP3).
ALL SURFACES	The surface to be treated must be sound, dry and free of cracks, dirt, oils, efflorescence, paint, curing compounds and all other contaminants which may affect the performance of Conformal Stain. Fill all cracks, voids and repoint mortar joints if necessary. New concrete and mortar must be allowed to cure a minimum of twenty-eight (28) days before treatment. Surface and air temperature must be between 40°F (4°C) and 120°F (49°C). Do not apply in direct sunlight when air temperature exceeds 90°F (32°C). Application at temperatures lower than 40°F (4°C) may reduce coverage rates and inhibit curing. Protect treated surfaces from rain and lawn sprinklers for 72 hours. New, smooth concrete should be scarified or acid etched prior to application. If Conformal Stain is to be applied in conjunction with a solvent-based Prime-A-Pell or Dur A Pell water-repellent, for optimal performance allow the water-repellent to cure between 12 and 36 hours, then apply Conformal Stain. Shield glass, wood and other surfaces that are not intended to be treated from overspray. Any overspray should be removed immediately with lacquer thinner or toluene. Also protect asphaltic surfaces, trees, shrubs and other landscaping from overspray.

TECHNICAL DATA

VOLUME SOLIDS	19% †
WEIGHT SOLIDS	29% †
VOLATILE ORGANIC COMPOUNDS	6.1 lbs/gallon (729 grams/litre) †
SOLUBILITY IN WATER	None
pH	N/A
ACTIVE INGREDIENT	Methylmethacrylate Acrylic Resin
APPEARANCE	Liquid; color varies
PACKAGING	55 gallon (208.2 L) drums, 5 gallon (18.96 L) pails
NET WEIGHT PER GALLON	8.32 ± 0.10 lb/gal (933 g/L) †
STORAGE TEMPERATURE	Minimum 35°F (2°C) Maximum 100°F (38°C)
SHELF LIFE	24 months at recommended storage temperature.
FLASH POINT - SETA	76°F (24°C)
HEALTH & SAFETY	Paint and related products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to use of this product. Use only in well-ventilated or open areas. Special precautions should be taken to avoid vapor transmission (fumes) from entering the building being treated. Ventilation systems and fresh air intakes should be turned off and closed. All direct routes of vapor ingress such as windows and doors must be secure. Notify occupants of the building prior to application, as vapors may be irritating. Keep out of the reach of children.

CONFORMAL STAIN | SERIES 607

APPLICATION

COVERAGE RATES

Coverage rates are guidelines and will vary depending upon the texture of the surface and porosity of the substrate.

Substrate	Sq. Ft./Gal.	m ² /litre
CMU (porous)	75 - 100	1.8 - 2.5
CMU (normal)	100 - 125	2.5 - 3.1
Concrete	125 - 200	2.5 - 4.9
Stucco	100 - 125	2.5 - 3.1
Precast	150 - 200	3.7 - 4.9
GFRG	150 - 250	3.7 - 6.1
Fired Clay Brick	150 - 200	3.7 - 4.9

A test application **must** be performed to determine the exact coverage rate to achieve desired performance characteristics and aesthetic appearance before beginning a job. †

THINNING

Do not dilute or thin with solvent. Conformal Stain may be diluted with Conformal Clear to achieve a semi-transparent finish without diminishing performance.

APPLICATION EQUIPMENT

Mix well prior to application. Blend or box material on projects requiring multiple containers. Apply using airless paint spray equipment, brush or deep nap roller. When using an airless sprayer, use a 0.015 or 0.018 fan spray tip and reduce pressure to point of minimal misting or fogging to produce a wet application. Multiple applications may be necessary when a complete color change is desired; when this occurs, allow 4 to 6 hours between applications.

MAINTENANCE

None required. Life expectancy is dependent upon substrate condition, quality of application and surface use.

CLEANUP

Clean equipment after use with lacquer thinner or toluene.

† Values will vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Chemprobe will provide a warranty application, prior to product installation, upon request. Chemprobe stands behind the performance claims of its products when used in accordance with their design intentions and application instruction. Coverage rates are critical for long life expectancy. Rates must be within the noted ranges on the Coverage Rate Table for a warranty to be valid. Chemprobe under all warranties, expressed or implied, shall be limited to the refund of purchase price or replacement of product, determined at Chemprobe's sole discretion. CHEMPROBE'S WRITTEN WARRANTY IS IN LIEU OF ANY WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS. A copy of the Chemprobe Warranty, with a valid Warranty number must accompany any warranty claim. A Division of Tnemec Co., Inc.