



Poly-Seal Microcement Pre-Sealer Application Guide

Instructions Technical Data

KEEP OUT OF REACH OF CHILDREN. AVOID EYE CONTACT. SEEK IMMEDIATE MEDICAL ATTENTION IF INGESTED OR EXPOSED TO EYES. AVOID PROLONGED EXPOSURE TO SKIN. WEAR SAFETY GOGGLES AND GLOVES WHEN WORKING WITH POLYURETHANE SEALER. REFER TO MATERIAL SAFETY DATA SHEET (MSDS) FOR ADDITIONAL HEALTH AND SAFETY INFORMATION. FOR MSDS (MATERIAL SAFETY DATA SHEET), VISIT SHOP.5STARFINISHES.CA

GENERAL

Smith's Poly-SEAL is a single component, fast drying, waterborne polyurethane polymer fused with a cross-linking acrylic which achieves a tenacious bond to approved substrates, with very good resilience, longevity, UV stability and wear. Smith's Poly-SEAL may be used as a primer for interior and exterior direct-to-concrete applications prior to Smith's Poly WB topcoat, as a seal coat to lock down Vinyl Chip prior for residential garage floor systems, finish for Terrazzo as a replacement for traditional floor wax in addition to a standalone architectural and decorative concrete sealer for concrete overlays, Stucco, pavers and more.

RECOMMENDED USES:

- Primer for: Smith's Poly WB (over Microcement)
- Seal Coat prior to High Wear Polyurethane 90s
- Bonds to: o Concrete, Stucco & Polymer Modified Overlays
- Pavers, Concrete Stains & Dyes
- Ready-to-Use
- Alkali-Resistant
- Fast Drying
- Tenacious Bond
- Low Odor & Low VOC's
- Infinite inter-coat adhesion
- UV Stable - Non-yellowing
- Good Blush Resistance
- Resists to Hot Tire Pickup (Residential Traffic only)

COVERAGE

Theoretical yield is 220 to 300 sq/ft per gal. depending on texture and porosity of the surface to be sealed and method of application. For exact coverage rates, a measured quantity to proper application over a

known area will provide a square foot coverage rate for a specific job. The coarser finishes will use a lot more sealer than fine finishes with closed pores and a more polished surface.

Two coats are recommended in all circumstances, and 3 in all wet areas

SUITABLE APPLICABLE SURFACES

Apply Pre-sealer to Microcement that has not been stained, or after decorative water based stains have been applied, such as C & C Color top etc. This product is film forming, and is not color enhancing, and will not change the look and appearance of the plaster.

PREPARATORY WORK: Always remove all of your tape prior to applying this sealer, as it will seal the tape to the plaster and be very difficult to remove. It is best to have a perfectly clean environment, scrape and or sand any loose particles of plaster off the surface and vacuum and sweep a couple times. Any debris on your floor or wall, will seal into your final finish. If there is dust and debris in the air this also will become attached to your final finish.

When sealing floors, no site protection is required generally, and when sealing walls, it is best to protect any horizontal surfaces including floors and countertops etc.

PRODUCT APPLICATION

After the Microcement has cured at least 12 hours, you can lightly sand or scrape the surface with a putty knife to ensure any loose debris or texture is removed prior to sealing. Sanding should be done with orbital sander, drywall mechanical sander or Festool, or pole sander etc with a grit no lower than 150. If you want to sand with a lower grit, please test prior to use. Remove all tape, vacuum and clean surface so there is no residue, and proceed to mix correct dilutions for the Poly-Seal.

Thinning: Material is supplied as a 1-component "ready-to-use" sealer. For wet areas and exteriors, it is best to dilute 3 parts water to 1 part Pre-sealer to ensure it penetrates deep into the Microcement sealing it from the inside out. The next coat should be 1 part water to 1 part pre sealer, and finally the last coat should be undiluted for a strong final coat prior to your top coat of Water or oil based polyurethane sealer. In dry areas and residential flooring, you can apply a 1-1 and undiluted ratio.

Application Method: Smith's Poly-WB may be applied via brush or roller. Application rate must be kept above 200 square feet per gallon to avoid bubbles created from off gassing (resulting from thicker application). NOTE: DO NOT APPLY material if humidity is over 90% and ventilation is poor. Improper cure will result. Also ensure temperatures are within the range of 10-38 degrees Celsius.

Roller Application: Use a 10 mm microfiber nonshed roller cover. Smith's Poly-WB can be roller applied onto Smith's Color Floor or Smith's Color Accents via the dip & roll method out of a paint tray. DO NOT OVER-APPLY or ALLOW EXCESS PUDDLING of pre-sealer. With the diluted coats the product should soak into the Microcement, and the last coat should form a solid coat over the microcement closing pores and leaving a smooth surface.

STORAGE: Indoors between 50°F (10°C) to 100°F (38°C) **INSTALLATION TEMPERATURE RANGE:** 55°F (12.7°C) to 100°F (38°C) with up to 80% Humidity

SHELF LIFE: 1 Year, 30 days (once opened)

POTLIFE AND TRAFFIC TIMES:

*Cure time is affected by temperature & humidity

Working Time - N/A
Recoat Window - Infinite
Light Foot Traffic 60-90 min
Heavy Foot Traffic 36 hrs
Vehicle traffic 36 hrs

SPECS:

CURED COATING PROPERTIES (DRY FILM):

Abrasion Resistance mg/loss *Taber Abraser ASTM D4060 75mg
Adhesion to Concrete ASTM D4541 Concrete Fails
VOC's (Mixed) ASTM D3960 99 g/L

MAINTENANCE: The coating system must be allowed to cure for no less than one week before using any mechanical cleaning equipment on the surface and no less than 3 days before neutral cleaner. This includes auto-scrubbers, swing buffers, sweepers, etc. Only dust and wet mopping may occur the first week. Dust mopping, removal of debris and regular cleaning is crucial to maintaining the aesthetics of the coating and obtaining the maximum life span of the floor coating system. Cleaning cannot occur too often and inefficient cleaning will cause the floor to wear out prematurely and possibly stain or discolor depending on what comes in contact with the floor. Spills should be removed quickly. Avoid the use of Polypropylene or abrasive bristle (Tynex®) brushes as these brushes will cause the development of scratch patterns and lessen the sheen. To maximum your investment with proper floor care and maintenance, remove all particles that may scratch and/or dull the floor coating using the least aggressive method necessary to clean the floor. • Daily = Sweep and dust mop or water only mopping/auto-scrubbing; spot clean spills & oils • Weekly or Monthly = Scrubbed once per week or month depending on the amount & type of soils present.

DETERGENT: Always use the least aggressive detergent necessary to remove the residue. Smith's Neutral Detergent, or similar, may be used for general purpose cleaning. Use Smith's Oil Clean, or similar degreaser, for more degreasing and heavy duty weekly or monthly cleaning.

CLEAN UP

Soap and water

POT LIFE: Infinite

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