



Two Component Water Based Extra Strength Polyurethane

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

This is a water based polyurethane, that is 50% solids, and is mixed in a ratio of 1-2, rather than 1-4 for most microcement sealers. These sealers that have only one quarter of component B do not produce a surface nearly as durable as this commercially rated polyurethane with higher solids content and 50% more component B to mix with the system. This produces a topcoat that is hard, durable and highly protective.

Developed for interior or exterior wear surfaces in residential and commercial installations to protect against long-term chalking in high U.V. exposure environments and for greater film thickness capabilities, better gloss retention, better chemical and stain resistance versus traditional 2-Component water-based Polyurethanes.

This sealer achieves a mild wet look to boost color and depths of colors, and produces a hard film finish with great UV stability, abrasion resistances, stain resistance, adhesion, gloss retention, and is extremely easy to clean with a low odor formula.

- High Gloss / Satin Sheen
- Good Pot-life - 2 hour Pot-life at 75F/50% Humidity
- U.V. Stable
- Superior performance
- Enhances Color
- Non-blushing
- Resistant to hot tire pickup
- Interior and Exterior application, including shower stalls
- Low VOC's

COVERAGE

Theoretical yield is 200 to 365 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.

SUITABLE APPLICABLE SURFACES

Apply sealer to Microcement or any of our other plasters where a permanent waterproof hard wearing surface is required. This product is film forming, and will change the look and appearance of the plaster, so please test prior to using on a backsplash etc.

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

Thinning: Material is supplied as a 2-component “ready-to-use” sealer. Applicator may add up to 10% water during application to lower viscosity (make sealer thinner). The addition of water must be introduced after Part A and Part B have been mechanically mixed.

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.

Roller Application: Use a 3/4 inch (heavy texture) or 3/8 inch 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 Smith’s Poly-WB as whitening and/or bubbles may occur

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 the 2 parts A to 1 Part B. You can break up the kit if you only have a small section to seal.

Mix the Parts A and B together first, and then add up to 10% water in your sealer prior to applying. Some times sealer can get thicker, and if you have a very polished application, you may want to add a little more water to ensure it penetrates deeply into the product to start. On your second coat, ensure you follow the 10% rule to ensure maximum strength.

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: 24 Months (original, unopened containers); 30 days (once opened)

POTLIFE AND TRAFFIC TIMES:

*Cure time is affected by temperature & humidity

Working Time 50 – 60 minutes

Recoat Window Gloss 7 – 24 hrs

If this window has passed, ensure you abrade the surface with green floor buffing pad or 150 grit sand paper.

Light Foot Traffic 12-15 hrs

Heavy Foot Traffic 24 hrs

Vehicle traffic 48 hrs

Full chemical and water resistance 7 days

SPECS:

CURED COATING PROPERTIES (DRY FILM):

Abrasion Resistance mg/loss *Taber Abraser ASTM D4060 40 mg (Poly WB/G) 38 mg (Poly WB/LS)

Flexibility 1/8" Cylindrical Mandrel ASTM 522 Pass

Hardness (Pencil) ASTM D2370 H (Poly WB/G) 2H (Poly WB/LS)

Adhesion to Concrete ASTM D4541 Concrete Fails

VOC's (Mixed) ASTM D3960 72 g/L (Poly WB/G) 57 g/L (Poly WB/LS) Gloss (60°) ASTM 1455 ±85 (Poly

SLIP RESISTANCE: We recommend the use of angular slip-resistant aggregate in all coatings that may be exposed to wet, oily or greasy conditions as well as any condition where increased traction may be necessary. It is the contractor and end users' responsibility to determine the appropriate traction needs and footwear necessary for the conditions as well as setting performance parameters prior to beginning the application, testing to determine parameters have been met upon completion to achieve the end users documented safety standards. Mock-ups are highly recommended as part of the evaluation process to determine the appropriate amount of slip-coefficient necessary for the environment.

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: Roughly one hour depending on temperature.

To order materials, find more tech information and install ideas please visit WWW.5STARFINISHES.CA.
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