



POLYMERICA PRODUCT DATA

MasterShield WPC

Water-borne Polyurethane
Coating

PRODUCT PRESENTATION

MasterShield WPC is a two-component water-phase polymeric coating used to protect and maintain concrete, tile, masonry or polymer floors and walls. **WPC** is essentially odorless, contains no free isocyanate and can be safely applied in occupied facilities. The coating provides a tough, UV and abrasion resistant film that will also resist mild chemical attack.

MasterShield WPC can be used as a final high gloss or low sheen sealer for most polymeric floor systems.

PRODUCT FEATURES

- No free isocyanate
- Low VOC, low odor
- Non-flammable
- UV resistant
- Excellent clarity and color retention
- Low maintenance finish, excellent abrasion and mar resistance
- Soap and water clean-up

COVERAGE

160-180 square feet per gallon yields 3.0+ mils DFT. Two coats are recommended for general service.

PACKAGING

Unit Size	Part A :	Part B	Weight*
5 1/2 Gallons	1 x 5	: 1 x 32 oz.	48 lbs.
52 1/2 Gallons	1 x 50	: 1 x 2 1/2 gal.	485 lbs.

* approximate shipping weight

INSTALLATION GUIDELINES

Preparation: Surface must be properly prepared, and if required, primed. Surface contaminants must be removed including oil, grease, dirt and laitance. Previous coatings should be lightly abraded. Minimum surface temperature for application is 50°F. Consult **POLY-MERICA** Bulletin SP-C for full details.

CAUTION: MasterShield WPC will not adhere to bare-unprimed concrete. Concrete must be properly prepared and primed with MasterShield EPS prior to the application of **WPC**.

Mixing: Observe all precautions on label and MSDS when using this product. Mix 32 oz. Part B per 5 gallons Part A with a low speed drill for at least two (2) minutes. Add Part B while mixing Part A. If mixing flattening paste and/or colors, add appropriate quantity of paste or color-pack to Part A before adding Part B. Can be reduced up to 1 quarter water to 5 gallons WPC.

Application: Apply coating using a 10 mil moon notched squeegee, maintaining a wet edge throughout the application. Kiss roll the coating immediately to distribute using mohair or Pro-doo-z roller covers. Do not roll back into the applied coating. Heavy film will take longer to dry.

Cure: Re-coat in 2 to 24 hours @ 70°F/50%RH. Low temperatures or high humidity will significantly increase cure time. Light traffic 12-16 hours. Full cure 3-5 days @ 70°F/50% RH.

Clean-Up: Soap and water.

PHYSICAL PROPERTIES

Composition:	Two-component, water-borne polyurethane
Color:	Clear. Color-packs available for MasterShield colors. See color card.*
Gloss; 60°:	High-gloss 90-95 Low-sheen 25-30
Weight/gallon:	6.8 lbs., mixed (clear)
Solids Content:	32 ±1% by volume
VOC:	60 gm/liter (clear) 124 gm/liter (pigmented)
Mix Ratio:	20A : 1B by volume
Pot Life:	24 hours. Protect from freezing
Viscosity:	250 cps. mixed approx.

*Custom colors available with restrictions.

PERFORMANCE PROPERTIES

Tensile Strength: (ASTM D-638)	6,000 psi (100% modulus)
Elongation: (ASTM D-638)	125%
Impact Resistance:	Substrate fails
Abrasion Resistance: (ASTM D-4060)	12 mg loss (CS-17 wheel, 1 kg. load, 1000 cycles)
Weatherometer: (QUV/1000 hours):	No yellowing No loss of gloss

SAFETY

Material Safety Data Sheets are available from **POLYMERICA** and should be consulted prior to use of the product. This product is intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved.

MasterShield WPC is a two component water borne polyurethane system. Part **A** contains polyurethane resin, M-Pyrol and diethylaneamine. Part B contains a mixed ester of aziridine propanoic acid. Workers should wear gloves and goggles when mixing or applying product. Clean up with soap and water. Be sure to follow all label and MSDS cautions.

CHEMICAL RESISTANCE

<u>Reagent</u>	<u>Rating</u>
Acetic Acid-10%.....	
Detergent	
Gasoline	
Methyl Ethyl Ketone	
Motor Oil	
Skydrol 500 B	
Sodium Hydroxide-10%	
Toluene	
Vinegar	
Xylene	

R -No Effect
L - Slight Softening

Test Method ASTM D-1308 24 hours spot test at 75°F. This coating is not recommended for immersion or severe chemical service.

WARRANTY

POLYMERICA warrants its products to conform to its manufacturing standards. **POLYMERICA** will replace or refund the purchase price of non-conforming product at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of non-compliance and no later than one year from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product data or warranty.

IMPORTANT NOTICE

These products are sold subject only to the express warranties contained herein. There are no other warranties by **POLYMERICA** of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Buyer agrees that seller assumes no liability for remote or consequential damages of any kind which result from the use or misuse of the product. Information contained herein is based on data believed to be reliable, however, it is the Buyers responsibility to satisfy itself of the suitability of the product for a particular purpose.

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www.polymerica.com