

MEGASEAL™ WBPC

DESCRIPTION

MegaSeal WBPC is a low viscosity, waterborne, two-component epoxy primer / sealer. MegaSeal WBPC enhances adhesion by penetrating into the concrete substrate and helps reduce bubbling and pinholes that may occur when coating porous surfaces.

PRINCIPAL CHARACTERISTICS

- Zero VOC
- Easy to apply
- Low gloss
- Low odor
- Easy soap and water clean up
- Excellent adhesion to acid-etched concrete
- Suitable for new concrete or refurbishment
- TYPICAL USES:
- Food and beverage processing facilities
- Electronic equipment plants
- Industrial and commercial warehouses
- Laboratory floors
- Pharmaceutical plants

COLOR AND GLOSS LEVEL

- Clear
- Low gloss

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	35 ± 3%
VOC (Supplied)	max. 0.0 lb/US gal (approx. 5 g/l)
Temperature resistance	To 200°F 93°C)
Recommended dry film thickness	2.0 - 4.0 mils (50 - 100 µm) depending on system
Theoretical spreading rate	280 ft²/US gal for 2.0 mils (0.0 m²/l for 50 µm) 140 ft²/US gal for 4.0 mils (0.0 m²/l for 100 µm)
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- MegaSeal WBPC is subject to color change upon aging, especially if exposed to direct sunlight. There may be minor variations in color from batch-to-batch. Change batches at natural breaks or transitions or intermix batches for color consistency.
- Coverage will vary, depending on porosity of concrete and application method.

MEGASEAL™ WBPC

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- Coating performance is proportional to the degree of surface preparation
 - NEW / BARE CONCRETE - Refer to SSPC-SP13 / NACE No. 6 for detailed information regarding surface preparation of concrete. In general, concrete must have sufficient profile to achieve satisfactory adhesion of primer and topcoat. Concrete must be in sound condition and free of all coatings, curing compounds, oil, and other contaminants. New concrete must cure a minimum of 28 days prior to application of any coatings.
 - Concrete can be abrasive blasted (ASTM D4259) or mechanically abraded to achieve a profile of 60-grit sandpaper or coarser. Moisture vapor transmission should be 3 lbs. or less over a 1000 sq. ft. area during a 24 hour period, measured and confirmed through a calcium chloride test per ASTM F1869. Concrete should have a minimum tensile strength of 300 psi verified by pull-off adhesion test per ASTM D4541. Slabs on grade that do not have an appropriate moisture barrier installed may be subject to seasonal moisture migration than can result in coating disbondment. Should concrete not meet moisture vapor transmission or tensile strength requirements, contact you local sales representative for guidance. Consult the following ASTM methods: ASTM D4263 - plastic sheet method for checking moisture in concrete; ASTM D4258 - standard practice for cleaning concrete; ASTM D4260 - standard practice for etching concrete.
 - PREVIOUSLY COATED CONCRETE - Old coatings and concrete must be in sound condition. Surfaces must be clean and dry and free of all contaminants such as dust, dirt, grease, and oil. Old coatings must be uniformly abraded to achieve satisfactory adhesion. Apply a test patch to the abraded surface and allow to cure a minimum of one week before testing adhesion. If adhesion is poor, or if the old coatings are peeling, chipping, or are otherwise in poor condition, remove the coatings down to bare concrete and prepare the bare concrete as shown above.
-

Atmospheric exposure conditions

- Ambient temperatures should be between 55°F (13°C) and 95°F (35°C)
 - Material temperature should be between 55°F (13°C) and 95°F (35°C)
 - Maximum 85% relative humidity during application and curing
-

Substrate temperature

- Substrate temperature during application should be between 55°F (13°C) and 95°F (35°C)
 - Substrate temperature during application should be at least 5°F (3°C) above the dew point
-

SYSTEM SPECIFICATION

- DECORATIVE - MegaSeal WBPC / MegaSeal SL (10 mils DFT) / MegaSeal SL Clear (optional)
 - MILD - MegaSeal WBPC / MegaSeal SL (20 mils DFT) / MegaSeal SL Clear (optional)
 - MODERATE - MegaSeal WBPC / MegaSeal SL (30 mils DFT) / MegaSeal SL Clear (optional)
-



MEGASEAL™ WBPC

INSTRUCTIONS FOR USE

- **APPLICATION EQUIPMENT** - The following is a guide. Adjustments in application equipment or technique may be necessary to accommodate varying field conditions.
- **SQUEEGEE**: Flat or notched rubber squeegee (depending on DFT required) with EPDM rubber blade, available from manufacturers such as Midwest Rake Co.
- **ROLLERS**: 3/8 inch lint-free roller with phenolic core for back-rolling, and 7/16 inch sharp-tipped spiked roller for air release and leveling, available from manufacturers such as Midwest Rake Co.
- **MIXING**: MegaSeal WBPC is a two-component coating. Stir base thoroughly to disperse pigment before mixing with hardener. Add hardener to base and mix slowly until uniformly blended. Do not mix at high speed, as air entrainment will occur. MegaSeal WBPC is ready for use immediately after mixing base and hardener; no induction time is required. Do not mix more material than can be applied within the potlife (see potlife data). Material which has begun to set cannot be satisfactorily used and must be discarded. Surface temperature must be at least 5°F (3°C) above the dew point to avoid condensation.
- **APPLICATION PROCEDURE**:
 - MegaSeal WBPC is packaged in proper proportions which must be mixed together before use. Mix full units only.
 - Pour a substantial portion of mixed material onto the floor in a long ribbon approximately 12 to 18 inches wide. Do not scrape or drain containers.
 - Using either a flat or notched rubber squeegee, spread the mixed material to a uniform thickness. Apply sufficient pressure to work the material into the porous surface.
 - Wet film thickness can be adjusted by varying the angle of the squeegee to the floor and by varying the amount of pressure applied.
 - As material is being spread with the squeegee, an applicator wearing spiked shoes should immediately back-roll and cross-roll the material with a clean, lint-free 3/8" roller. Finish by uniformly tipping off the surface with the roller in one direction, leaving 2 - 4 mils on the surface.
 - After 15 minutes set up time, the material should be rolled with a spike roller to aid air release and to improve appearance. Do not spike roll after 30 minutes.
 - If porosity or pinholes are evident after initial cure, an additional coat of MegaSeal WBPC may be necessary, especially on very porous concrete.
 - Clean equipment with water

Mixing ratio by volume: base to hardener 80:20 (4:1)

Pot life

2 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life



MEGASEAL™ WBPC

ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (51 µm)				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
MegaSeal SL	Minimum	8 hours	6 hours	4.5 hours
	Maximum	3 days	48 hours	24 hours

Note: Uniformly abrade the surface if the maximum overcoat time has been exceeded

Curing time for DFT up to 2.0 mils (51 µm)			
Substrate temperature	Dry to touch	Dry to handle	Full cure
55°F (13°C)	3 hours	36 hours	10 days
70°F (21°C)	2 hours	24 hours	7 days
90°F (32°C)	1 hour	12 hours	7 days

Pot life (at application viscosity)	
Mixed product temperature	Pot life
55°F (13°C)	2.5 hours
70°F (21°C)	2 hours
90°F (32°C)	1.5 hours

SAFETY PRECAUTIONS

- See Material Safety Data Sheet and product label for complete safety and precaution requirements

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

MEGASEAL™ WBPC

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. **THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG.** Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

Product code	Description
99-12800	Clear Base
99-12833	Hardener

Note: Available in a 5-gallon kit: 4 gallons of base in a 5 gallon can; 1 gallon of hardener in a 1.5 gallon can

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

