



PPG Protective & Marine Coatings

# MEGASEAL™ HSPC

*100% solids epoxy primer/sealer*

## Product Data/Application Instructions

- 100% solids
- Easy to apply
- Low viscosity
- Seals porous concrete, reduces bubbling of self-leveling topcoats
- Suitable for new concrete or refurbishment
- Smooths rough surface profile

MegaSeal HSPC is a low viscosity, 100% solids, two component, high build, fast cure epoxy primer/sealer. MegaSeal HSPC enhances adhesion by penetrating into the concrete substrate and helps reduce bubbling and pinholes that may occur when coating porous surfaces.

## Typical Uses

- Food and beverage processing facilities
- Electronic equipment plants
- Industrial and commercial warehouses
- Laboratory floors
- Pharmaceutical plants
- Power plants
- Waste water and sewage treatment plants

MegaSeal HSPC is for use over prepared concrete. It is ideal for use on porous concrete or over a rough surface profile.

MegaSeal HSPC is normally topcoated with MegaSeal SL. Consult your sales representative for other recommendations.

## Recommended Systems

Service	Primer	2 <sup>nd</sup> Coat	3 <sup>rd</sup> Coat
Decorative	MegaSeal HSPC	MegaSeal SL (10 mils)	MegaSeal SL Clear
Mild	MegaSeal HSPC	MegaSeal SL (20 mils)	MegaSeal SL Clear
Moderate	MegaSeal HSPC	MegaSeal SL ( 30 mils)	MegaSeal SL Clear
Severe	MegaSeal HSPC	MegaSeal HDSL	MegaSeal SL Clear
Chemical Exposure	MegaSeal HSPC	MegaSeal SC/HSN	None

## Products

99-12700	Clear Resin
99-12710	Gray Resin
99-12733	Cure

## Physical Data

Finish	Low Gloss	
Color*	Clear, gray	
Components	2	
Curing mechanism	Chemical reaction between components	
Volume solids (calculated)	100%	
DFT per coat	mils	microns
	6 to 10	150 to 250
Coats	1	
Theoretical coverage**	ft <sup>2</sup> /gal	m <sup>2</sup> /L
6 mils (150 microns)	267	6.5
8 mils (200 microns)	200	4.9
10 mils (250 microns)	160	3.9
Temperature resistance, dry	200°F (93°C)	
VOC (calculated)	0.0 lb/gal	0.0 g/L
Flash point (SETA)	°F	°C
99-12700	255	124
99-12733	300	182

*\*MegaSeal HSPC 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 consistency.*

*\*\*Coverage will vary, depending on density or porosity of concrete, and application method.*

# MegaSeal HSPC Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	F	G
Alkaline	E	E
Solvents	E	E
Salt solutions		
Acidic	G	VG
Neutral	E	E
Alkaline	E	E
Water	E	E

F-Fair G-Good VG-Very Good E-Excellent

This chart shows typical resistance of MegaSeal HSPC. Contact your sales representative for your specific requirements.

## Surface Preparation

Coating performance is proportional to the degree of surface preparation. Concrete surfaces must be clean and dry and free of contaminants such as dust, dirt, grease, or oil.

**New/Bare Concrete** – Refer to SSPC-SP 13/NACE No. 6 surface preparation of concrete 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 equal to 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. Concrete should have a minimum surface tensile strength of 300 PSI verified by a pull-off adhesion test. Slabs on grade that do not have an appropriate moisture barrier installed may be subject to seasonal moisture migration that can result in coating disbandment. Should concrete not meet moisture vapor transmission or tensile strength requirements, contact your local sales representative for guidance. Consult the following ASTM methods: ASTM-4263 – plastic sheet method for checking moisture in concrete; ASTM 4258 standard practice for cleaning concrete; ASTM 4259 standard practice for abrading concrete; ASTM 4260 standard practice for etching concrete.

**Previously Painted 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, or 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.

## Application Data

Applied over	Prepared concrete	
Surface Preparation	ASTM D4260 or 4259	
Method	Pour and spread – squeegee and backroll	
Mixing ratio (by volume)	1.6 parts resin to 1 part cure	
Environmental conditions		
Temperature	°F	°C
air	55 to 95	13 to 35
surface	55 to 95	13 to 35
material	55 to 95	13 to 35

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation. Relative humidity must not exceed 85%.

Pot Life (mins.)	°F/°C		
	90/32	70/21	55/13
	15	30	45
Drying time (hours, @ 8 mils DFT, 50% RH)			
	°F/°C		
	90/32	70/21	55/13
touch	4	5	7
through	18	24	48
full cure	7 days	7 days	10 days

Recoat/Topcoat time (hours, @ 8 mils DFT, 50% RH)

	°F/°C		
	90/32	70/21	55/13
Recoat/Topcoat, min	5	6	8
Recoat/Topcoat, max*	24	24	24

\*Roughen surface if maximum recoat/topcoat time has been exceeded.

## 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 upon 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 backrolling, and 7/16 inch sharp-tipped spiked roller for air release and leveling, available from manufacturers such as Midwest Rake Co.

## Mixing

MegaSeal HSPC is a two-component coating. Stir resin thoroughly to disperse pigment before mixing with cure. Add cure to resin and mix slowly until uniformly blended. **Do not mix at high speed, air entrainment will occur.** MegaSeal HSPC is ready for use immediately after mixing resin and cure; no induction time is required. Do not mix more material than can be used within the working time: See pot life data. Material which has begun to set cannot be satisfactorily used and must be discarded. Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

## Application Procedure

MegaSeal HSPC is packaged in the proper proportions which must be mixed together before use. **Mix full units only.**

Pour a substantial portion of mixed material onto 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.

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As material is being spread with the squeegee, an applicator wearing spiked shoes should immediately backroll and crossroll the material with a clean, lint-free 3/8" roller. Finish by uniformly tipping off the surface with the roller in one direction, leaving 6-10 mils on the surface.

After 15 minutes set up time, the material should be rolled with a spiked roller to aid air release and improve appearance. Do not spike roll after 30 minutes.

If primer is to be topcoated with MegaSeal HDSL surfacer, sand or other suitable aggregate may be lightly broadcast over wet primer to aid the application of the surfacer by providing a grip for the surfacer and preventing the surfacer from sliding on the primed surface as it is troweled on.

If porosity or pinholes are evident after initial cure, an additional coat of MegaSeal HSPC may be necessary, especially on very porous concrete.

## Shipping Data

Packaging unit	5 gal unit	
cure	1.9 gal in 2 ½ gal can	
resin	3.1 gal in 5 gal can	
Shipping weight (approx)	lbs	kg
5-gal unit		
resin	31.0	14.1
cure	17.0	7.7

Shelf life when stored indoors at 40° to 100°F (4° to 38°C) resin and cure 1 year from shipment date.

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions.

## Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of both components. Safety precautions must be strictly followed during storage, handling, and use.

This product is for industrial use only. Not for residential use.

## Warranty

PPG warrants only its title to the products, and that the products will be set forth in the warranty statement, if any, on the products labeling or in the absence of any such warranty statement that the products will conform to PPG's applicable published specifications. PPG's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. 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, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PPG of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

PPG makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by PPG, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

Due to PPG's policy of continuous product improvement, the information contained in this Product Data/Application Instructions sheet is subject to change without notice. It is the Buyer's responsibility to check that this issue is current prior to using the product. For the most up-to-date Product Data/Application Instructions always refer to the PPG Protective & Marine Coatings website at [www.ppgpmc.com](http://www.ppgpmc.com)

## Limitation of Liability

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