

MEGASEAL™ HSPC

DESCRIPTION

MegaSeal HSPC is a low viscosity, solvent free, two-component 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.

PRINCIPAL CHARACTERISTICS

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

COLOR AND GLOSS LEVEL

- Clear, gray
- Low gloss

BASIC DATA AT 68°F (20°C)

| Data for mixed product | |
|--------------------------------|--|
| Number of components | Two |
| Volume solids | 100% |
| VOC (Supplied) | max. 0.0 lb/US gal (approx. 0 g/l) |
| Temperature resistance | To 200°F 93°C) |
| Recommended dry film thickness | 6.0 - 10.0 mils (150 - 250 µm) depending on system |
| Theoretical spreading rate | 267 ft ² /US gal for 6.0 mils (0.0 m ² /l for 150 µm) 200 ft ² /US gal for 8.0 mils (0.0 m ² /l for 200 µm) 160 ft ² /US gal for 10.0 mils (0.0 m ² /l for 250 µm) |
| Shelf life | Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry |

Notes:

- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time



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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 that can result in coating disbondment. Should concrete not meet moisture vapor transmission or tensile strength requirements, contact your 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.
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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
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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 dew point
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SYSTEM SPECIFICATION

- DECORATIVE - MegaSeal HSPC / MegaSeal SL (10 mils DFT) / MegaSeal SL Clear
 - MILD - MegaSeal HSPC / MegaSeal SL (20 mils DFT) / MegaSeal SL Clear
 - MODERATE - MegaSeal HSPC / MegaSeal SL (30 mils DFT) / MegaSeal SL Clear
 - SEVERE - MegaSeal HSPC / MegaSeal HDL / MegaSeal SL Clear
 - CHEMICAL EXPOSURE - MegaSeal HSPC / MegaSeal SC/HSN
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- 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 HSPC 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 HSPC 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 HSPC 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 6 - 10 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 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.
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Mixing ratio by volume: base to hardener 1.6 to 1

Pot life

30 minutes at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

Cleaning solvent

AMERCOAT 12 CLEANER



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ADDITIONAL DATA

| Overcoating interval for DFT up to 8.0 mils (200 µm) | | | | |
|--|----------|-------------|-------------|-------------|
| Overcoating with... | Interval | 50°F (10°C) | 70°F (21°C) | 90°F (32°C) |
| MegaSeal SL | Minimum | 8 hours | 6 hours | 5 hours |
| | Maximum | 24 hours | 24 hours | 24 hours |

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

| Curing time for DFT up to 8.0 mils (200 µm) | | | |
|---|--------------|---------------|-----------|
| Substrate temperature | Dry to touch | Dry to handle | Full cure |
| 55°F (13°C) | 7 hours | 48 hours | 10 days |
| 70°F (21°C) | 5 hours | 24 hours | 7 days |
| 90°F (32°C) | 4 hours | 18 hours | 7 days |

| Pot life (at application viscosity) | |
|-------------------------------------|------------|
| Mixed product temperature | Pot life |
| 55°F (13°C) | 45 minutes |
| 70°F (21°C) | 30 minutes |
| 90°F (32°C) | 15 minutes |

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™ HSPC

WARRANTY

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| Product code | Description |
|--------------|-------------|
| 99-12700 | Clear Base |
| 99-12710 | Gray Base |
| 99-12733 | Hardener |

Note: Available in a 5-gallon kit: 3.1 gallons of base in a 5 gallon can; 1.9 gallons of hardener is a 2.5 gallon can

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