

MEGASEAL™ SL

DESCRIPTION

MegaSeal SL is a spreadable, self-leveling epoxy floor coating for concrete floor protection where a smooth, cleanable floor surface is required. MegaSeal FLK Flake Additive decorative vinyl chips or MegaSeal QTZ Quartz Additive may be used with MegaSeal SL for an attractive, durable finish.

PRINCIPAL CHARACTERISTICS

- Solvent free
- Easy to apply, self-leveling
- High gloss
- Smooth, cleanable floor
- Excellent adhesion and abrasion resistance
- Provides long-lasting protection to concrete
- Impact resistant
- Suitable for new concrete or refurbishment
- 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, White, Tile Red, Sandstone, Deck Gray, Haze Gray
- High gloss

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	100%
VOC (Supplied)	EPA Method 24: 0.3 lb/US gal (35.9 g/l)
Temperature resistance	To 200°F 93°C)
Recommended dry film thickness	10.0 - 30.0 mils (250 - 750 µm) depending on system
Theoretical spreading rate	160 ft²/US gal for 10.0 mils (0.0 m²/l for 250 µm) 80 ft²/US gal for 20.0 mils (0.0 m²/l for 500 µm) 53 ft²/US gal for 30.0 mils (0.0 m²/l for 750 µm)



MEGASEAL™ SL

Data for mixed product**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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES**Concrete**

- Coating performance is proportional to the degree of surface preparation
- MegaSeal SL must be applied over MegaSeal HSPC or MegaSeal WBPC primer. Refer to the product data sheet for the specific primer being used for surface preparation specifications.
- 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 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.

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



MEGASEAL™ SL

SYSTEM SPECIFICATION

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

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 SL 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 SL 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 SL 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.
 - 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.
 - Mix thoroughly before application

Mixing ratio by volume: base to hardener 66.7:33.3 (2:1)

Pot life

40 minutes at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

MEGASEAL™ SL

ADDITIONAL DATA

Overcoating interval for DFT up to 20.0 mils (500 µm) using standard hardener 99-12633

Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	12 hours	8 hours	6 hours
	Maximum	3 days	3 days	3 days

Curing time for DFT up to 20.0 mils (500 µm) using standard hardener 99-12633

Substrate temperature	Dry to touch	Dry to handle	Full cure
55°F (13°C)	15 hours	48 hours	10 days
70°F (21°C)	6 hours	24 hours	7 days
90°F (32°C)	4 hours	18 hours	5 days

Curing time for DFT up to 20.0 mils (500 µm) using standard hardener 99-12633

Substrate temperature	Dry to walk on	Resistant to vehicular service
55°F (13°C)	48 hours	10 days
70°F (21°C)	24 hours	7 days
90°F (32°C)	18 hours	5 days

Pot life (at application viscosity) using standard hardener 99-12633

Mixed product temperature	Pot life
55°F (13°C)	1 hour
70°F (21°C)	40 minutes
90°F (32°C)	20 minutes

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements

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.



MEGASEAL™ SL

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

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Product code	Description
99-12600	Clear Base
99-12601	White Base
99-12603	Tile Red Base
99-12604	Sandstone Base
99-12612	Deck Gray Base
99-12614	Haze gray base
99-12633	Standard Hardener

Note: Available in a 5-gallon kit: 3.33 gallons of base in a 5 gallon can; 1.67 gallons of hardener (standard or fast dry) in a 2.5 gallon can.

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