



PPG Protective & Marine Coatings

MEGASEAL™ CF

Epoxy Crack Filler

Product Data/Application Instructions

- Filler for formed concrete or concrete block

MegaSeal™ CF is a 100% solids epoxy filler compound to fill holes, voids and surface discontinuities in formed concrete or concrete block up to one inch across as measured in their largest dimension. A single application will fill or seal most air bubbles and holes.

MegaSeal CF may be used to fill pits, voids, or seams in concrete.

Typical Uses

- Concrete surfaces in Industrial, Commercial & Institutional facilities
- Repair of surface defects such as bug holes, non structural shrinkage, cracks and minor spalling.

Products

99-11401	White Resin
99-11433	Cure

Physical Data

Color	White	
Components	2	
Curing mechanism	Chemical reaction between components	
Volume Solids	100%	
Theoretical coverage	ft. ² /unit	
1 mil (25 microns)		
3 lb. unit	406	
20 lb. unit	2709	
VOC	lb./gal.	g/L
Mixed	0.0	0.0
Flash point (SETA)	°F	°C
Cure	>200	93
Resin	>200	93

Typical Properties – after 7 days @70°F (21°C)

Mechanical

Density (ASTM D71 modified)	88.6 lbs./ft. ³
Tensile strength (ASTM D412)	3000 psi
Compressive strength (ASTM C579)	12549 psi
Modulus of elasticity (ASTM C580)	9.4 x 10 ⁵ psi

99-11401 (3/2008)
(Supersedes 12/2007)

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Prior to coating, all surfaces must be clean, undamaged, dry and free of all contaminants, including salt deposits.

Concrete – Cure concrete a minimum of 14 days and until 80% of its physical properties have been attained before applying MegaSeal CF. Prepare surfaces according to ASTM D4258, surface cleaning; D4259, abrading; or D4260, acid etching. Structural cracks in concrete should be evaluated and repaired by a knowledgeable concrete contractor. MegaSeal CF may be used for filling non-structural cracks where no additional slab movement is anticipated. Cracks should be chased and cleaned out prior to application.

Concrete Block – Walls must be laid plumb and square with flush joints. Do not rake joints. All surfaces must be clean and dry following ASTM D4261.

MegaSeal™ HSPC applied over water-cured concrete – Cure to a tack-free condition [16 hours at 70°F (21°C)] before application of MegaSeal CF.

Apply MegaSeal CF over prepared concrete surfaces or surfaces primed with MegaSeal HSPC primer/sealer. See primer literature.

Application Data

Applied over	Prepared or primed steel, concrete, masonry block		
Surface Preparation			
Concrete	ASTM D4258, 4259 or 4260		
Masonry	ASTM D4261		
Primer	MegaSeal HSPC		
Method	Squeegee, trowel, spatula		
Mixing ratio (by volume)	1.84 parts resin to 1 part cure.		
	°F/°C		
	90/32	70/21	50/10
Working time (hours)	1	2 ½	4
Initial Setting	9	18	36
Curing Time before topcoating			
minimum	9	18	36
maximum	36	72	144

If maximum recoat time exceeded, roughen surfaces.

Environmental Conditions

Temperature	°F	°C
material and surface	65 to 80	18 to 27

Below 65°F (18°C) workability is reduced and application more difficult.
Above 80°F (27°C) working time decreases.

MegaSeal CF can be applied to surfaces as low as 50°F (10°C); although curing retarded, typical properties of cured material will not be affected.

Application under direct sunlight and rising surface temperatures can result in bubbling of filler compound by release of air or moisture from concrete. Prior to application of MegaSeal CF shade for 24 hours any concrete exposed to direct sunlight and keep shaded until after initial set. With rising surface temperatures it may be necessary to postpone application.

Mixing

MegaSeal CF is supplied in the correct proportions of resin and cure which must be mixed together before use. Mix only full units. Make no additions or deletions. Any deviations will inhibit curing and alter final physical properties. Do not mix more material than can be used within working time: 2 ½ hours at 70°F (21°C). Material which has begun to set must be discarded.

Application

Spread and work the filler compound across surface filling voids using an epoxy floor trowel or wide bladed putty knives. Continue working filler compound across surface, applying pressure to achieve a smooth finish. Leave only a slight film above the surface plane. Filler compound should appear somewhat transparent allowing the concrete surface or concrete block texture to remain visible.

A second application may be required for complete filling and sealing of formed concrete surfaces receiving MegaSeal protective coatings. Allow overnight curing at 70°F (21°C), or until first application is firm.

Do not exceed 3 days at 70°F (21°C) before second application. When making second application, use only reasonable pressure to build film thickness to approximately 5 to 10 mils above the surface plane, at the same time remove ridges left during spreading of filler compound by the application tool. Repair all holidays with MegaSeal CF before applying coating.

Clean up

Clean all mixing equipment and application tools immediately with an epoxy or equipment thinner.

Coverage

Coverage depends upon the number and size of air bubbles or holes to be filled. The theoretical coverage per 20 pound unit on a smooth, pore-free surface is 2709 ft².

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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 professional use only. Not for residential use.***

Shipping Data

Packaging units	20 lbs.
cure	1/2 gal. can
resin	2 ½ gal. can

Shipping weight (approx.)	20 lbs.
Cure	5.28
Resin	14.72

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

Numerical values are subject to normal manufacturing tolerances and testing variances. Allow for application losses and surface irregularities.

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.

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