



PPG Protective & Marine Coatings

MEGASEAL™ CR

Concrete Repair

Product Data/Application Instructions

- Excellent for repairing deteriorated concrete
- Can be used to repitch floors for proper drainage
- Can be trowelled down for a feather-edge

Adhere to all instructions, precautions, conditions and limitations during storage, handling, application and drying periods to obtain maximum performance. For conditions outside the requirements or limitations described, contact your sales representative.

Typical Uses

- Concrete repair

MegaSeal CR is resistant to mild acids, mild alkalis, grease and oil. Can be applied in varying thickness.

Products

99-96510	Liquid
99-96555	Powder

Physical Data

Color	Gray
Components	2
Curing mechanism	Chemical reaction between components
Calculated coverage	48 ft. ² (4.4 m ²) @ 1/8 in. (3 mm) 24 ft. ² (2.2 m ²) @ 1/4 in. (6 mm) 12 ft. ² (1.1 m ²) @ 1/2 in (12 mm)

Surface Preparation

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

Prepared or primed concrete – Surface must be free of contaminants, such as dust, dirt, grease or oil. MegaSeal™ CR must be applied over wet or tacky 99-96510 Liquid.

Apply to prepared or primed concrete at the specified thickness or as required and trowel finish. When 99-96510 Liquid is used as the primer, apply MegaSeal CR the same day but after the 99-96510 Liquid has dried to touch.

Masonry – ASTM D4261.

During hot, dry conditions the concrete may be pre-moistened with water to assist in application of MegaSeal CR direct to concrete or masonry.

Application Data

Applied over	Prepared concrete or masonry block
Surface Preparation	Clean surface
Primer	99-96510 Liquid
Method	Trowel
Mixing ratio (by volume)	As packaged. Mix full units only.
Working time (ASTM C308)	30 minutes
Initial setting (ASTM C308)	5 1/2 hours

Minimum cure time before topcoating	3 days
Time before ready for MegaSeal CR surfacer	3 days

Environmental conditions		
Temperature	°F	°C
material	50 to 90	10 to 32
air and surface	35 to 110	2 to 43
Equipment cleaner	Water	

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure and tip size may be needed for proper spray characteristics.

Mixer – Power mud mixer with suitable power drill such as Jiffy Mud and Resin Mixer or Foldstir Mixer, each with 1/2 inch shaft.

Trowel –notched with 1/16 to 1/2 inch notches.

Environmental Conditions

Environmental conditions		
Temperature	°F	°C
material	50 to 90	10 to 32
air surface	35 to 110	2 to 43

Mixing

MegaSeal CR is unitized and consists of two components which must be mixed together before use. A unit consists of 8 lbs. (3.6 kg) of liquid and 48 lbs. (21.7 kg) of powder. Do not mix more material than can be used within the working time; 30 minutes at 73°F (23°C). If necessary to mix less than a full unit of material, the mixing ratio is 6 parts powder to 1 part of liquid by weight. Material which has begun to set is unsatisfactory and must be discarded.

99-965 (3/2008)

Power mixing using a suitable ½ inch power drill and mixer is recommended. When mixing more than a unit of material at one time, a 3-6 cu ft. revolving drum concrete mixer or mortar mixer is recommended. The material can also be mixed by hand using a mortar box or wheel barrow using a mortar hoe.

Shake the 1 gallon polyethylene bottle containing the liquid to disperse any sediment. Pour the liquid into the mixing vessel. Gradually add powder and mix until cement is uniformly blended to a workable consistency.

If the cement is applied in thickness greater than ¼ inch, a stiffer consistency can be achieved by adding additional powder. For application and thickness above 1 inch or for filling deep pitted concrete sections, add gravel to the mix, add 36 lbs. (16.3 kg) of ¼ - 3/8 inch clean gravel to each 56 lb. (25.4 kg) unit of material. Immediately after mixing, the MegaSeal CR cement is ready for use.

Application Procedure

MegaSeal CR cement is applied over clean concrete or 99-96510 Liquid primed surfaces. When 99-96510 Liquid is used as a primer, apply the mixed MegaSeal CR the same day, but after the 99-96510 Liquid has dried to touch. Place the MegaSeal CR mixed material over the prepared or primed concrete, spread and trowel to the desired finish using cement finishers tools.

Ready for service

The MegaSeal CR cement will support light floor traffic within 8-12 hours. Before overcoating the MegaSeal CR allow for 3 day cure period at 73°F (23°C).

Clean up

Clean all mixing equipment and application tools immediately with water.

Application Data Summary

See Application Instructions for complete information on surface preparation, environmental conditions, application procedures and equipment. To obtain maximum performance, apply as recommended. Adhere to all safety precautions during storage, handling, application and drying periods.

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	
Liquids	8 lbs. liquid in a 1-gal. Polyethylene bottle
Powder	48 lbs. powder in fiber drum

Shipping weight (approx.)	60 lbs.
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Shelf life when stored indoors at 40 to 100°F (4 to 38°C). Keep liquid from freezing. Liquid and powder 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.

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.

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99-965 (3/2008)

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