



POLYMERICA PRODUCT DATA

MasterShield CRC Chemically-Resistant Coating

PRODUCT PRESENTATION

MasterShield CRC is a 100% solids chemically resistant epoxy coating used to coat concrete, masonry, or steel surfaces including floors, walls, equipment, trenches, and structural members.

With its low permeability and high abrasion resistance, **CRC** is suitable for chemical immersion and wet process flooring. **CRC** will perform over marginally prepared surfaces, and will cure in adverse weather conditions.

This Product Data sheet covers **MasterShield CRC** in its standard grade with a gloss finish. The product is also available in formulations for:

- high viscosity and vertical applications (**CRC-OP**)
- low temperature formula (**CRC-LT**)
- flake filled (**CRC-F**)
- fibre reinforced (**CRC-FR**)
- light-dissipating (**CRC-LD**)

PRODUCT FEATURES

- ➔ 100% solids, non-volatile
- ➔ no odor - can be used in occupied facilities
- ➔ exceptional chemical resistance
- ➔ will cure in cool and damp conditions, even under water (longer cure time)
- ➔ self-extinguishing in thin films
- ➔ materials comply with USDA requirements for use in federally inspected meat and poultry plants
- ➔ approved by Agriculture Canada Food Production and Inspection Branch for use in registered establishments

PACKAGING

Unit Size	Part A	Part B	Weight*
3/4 gallon	1 x 1/2	1 x 1/4	10 lbs.
3 gallons	1 x 2	1 x 1	36 lbs.
15 gallons	2 x 5	1 x 5	175 lbs.

*approximate shipping weight

COVERAGE

MasterShield CRC is generally installed in two applications of 8 mils each (200 square feet per mixed gallon).

INSTALLATION GUIDELINES

Preparation: Surface must be properly prepared and if required, primed. Consult **POLYMERICA** Bulletin **SP-C** for full details.

Mixing: Observe all precautions on MSDS and label when using this product. Premix both components with a low-speed drill for at least two (2) minutes, then mix **2A : 1B** by volume for an additional two minutes. Scrape sides of container while mixing.

Application: Pour onto surface in ribbons, distribute product with notched squeegee, and lightly backroll with good quality medium nap roller to remove squeegee marks. Do not puddle. Tight areas may be applied with a natural bristle brush. Can also be sprayed with airless or conventional system. For spray application **only**, mixture can be thinned if needed with up to 1 quart of **MasterShield** thinner.

Cure: Recoat in 16 hours at 70°F. Shorter recoat times affect gloss. Can be opened to foot traffic in 8 - 12 hours. Full chemical cure will require 5 days at 70°F.

Clean-up: Clean skin with soap and water, use MEK or proprietary epoxy thinner for equipment.

PHYSICAL PROPERTIES

Composition:	Two-component amine adduct cured epoxy
Colors:	All MasterShield colors. See color card*
Gloss; 60°:	100
Weight / gallon	11.2 lbs. mixed
Solids Content:	100%
Mix Ratio:	2A : 1B by volume
Pot Life:	20 min. @ 70°F (3 gallon kit)
Viscosity:	1,000 cps., mixed approx.

*custom colors available with restrictions

PERFORMANCE PROPERTIES

Tensile Strength (ASTM D-638)	7,400 psi.
Elongation (ASTM D-638)	2.5%
Adhesion: (ASTM D-4541)	
to metal:.....	2,600 psi.
to concrete:.....	350 psi. (concrete fails)
Hardness: (ASTM D-2240)	79 (Shore D)
Abrasion Resistance (ASTM D-4060)	33 - 38 mg. weight loss
CS-17 wheel, 1 kg. load, 1,000 rev.	
Service Temperature:	175°F (immersion) 225°F (dry heat)

SAFETY

Material Safety Data Sheets are available from **POLYMERICA** and should be consulted prior to use of the product. These products are intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved.

MasterShield CRC is a two-part epoxy system. Part A contains epoxy resins. Part B contains amine epoxy adducts. Workers should wear gloves, goggles and body covering clothing when mixing or applying product. Clean up with soap and warm water. Be sure to follow all label and MSDS cautions.

MSCRC-062206

For additional information, visit our web site:

www.polymerica.com

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www.polymerica.com

CHEMICAL RESISTANCE

Reagent

Acetic Acid 5%	R
Acetone	L
Bleach	L
Citric Acid	R
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	R
Gasoline	R
Hydrochloric Acid-36%	R
Lactic Acid	R
Methyl Ethyl Ketone	L
Nitric Acid-10%	R
Skydrol	R
Sodium Hydroxide 50%	R
Sulphuric Acid-50%	R
Toluene	L
Urea	R
Vinegar	R
Xylene	L

R - Recommended for continuous service

L - Limited recommendation, occasional spills

This chart is intended as an aid in evaluating the performance of these systems in various chemical exposures at 75°F. The data is intended as a guide only. In severe or combination exposures, a sample should be tested under actual or simulated use conditions.

WARRANTY

POLYMERICA warrants its products to conform to its manufacturing standards. **POLYMERICA** will replace or refund the purchase price of non-conforming products at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of noncompliance and no later than one year from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product data or warranty.

IMPORTANT NOTICE

These products are sold subject only to the express warranties contained herein. There are no other warranties by **POLYMERICA** of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Buyer agrees that seller assumes no liability for remote or consequential damages of any kind which result from the use or misuse of this product. Information contained herein is based on data believed to be reliable, however, it is the Buyer's responsibility to satisfy itself of the suitability of the product for a particular purpose.



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