

# MPE Multi-Purpose Epoxy

## DESCRIPTION

IntegraCoat Solutions' MPE Multi-Purpose Epoxy is a 100% solids, high build epoxy that gives a seamless application. This product can be used by itself as a clear coating, or as a solid color coating with the addition of a color pack. It can also be used with decorative flakes, colored quartz, or micas to create a decorative protective barrier on the concrete.

## APPLICATION INFORMATION

See Application Information for complete information on surface preparation, equipment, environmental conditions, application procedures, and safety precautions. For conditions outside the specifications or limitations described, contact IntegraCoat Solutions for details.

## SURFACE PREPARATION

Coating performance is directly related to the quality and degree of surface preparation. Prior to overcoating, all surfaces must be clean, dry, undamaged, and free of all contaminants.

## SAFETY PRECAUTIONS

Read all Safety Data sheets carefully before use. Safety precautions in the SDS should be carefully followed during storage, handling and use. Improper use and handling can be hazardous to health and cause fire or explosion.

## LIMITATIONS

- Do not apply over a wet surface.
- Epoxies have limited ultraviolet resistance which may cause them to chalk, lose gloss, and / or discolor over time.
- Touchup or repair of an existing coating is never aesthetically perfect.
- Depending on mix design and curing / drying conditions, minimum age of concrete prior to application is 28 days.

## APPLICATION DATA

Substrate:	Prepared concrete
Surface Preparation	
Concrete:	ASTM D4258
Application Method:	Squeegee, Roller, Brush
<i>* Consult with IntegraCoat Solution's technical department for information on spray application.</i>	
Induction Period:	None
Mixing: MPE Multi-Purpose Epoxy is packaged in pre-measured containers consisting of Resin (Part A) and Hardener (Part B) which must be mixed together before use.	
Environmental conditions	
Temperature Range:	50-95°F
Max Relative Humidity:	80%
Surface Temperature:	50-95°F
Max Chemical Resistance:	4 – 7 days
Thinner:	None
Equipment Cleaner:	MEK

## LIQUID PHASE PHYSICAL PROPERTIES

Mixed Density:	8.91 lbs./Gallon
VOC:	0
Mix Ratio (By Volume):	2 Parts Resin (Part A) 1 Part Hardener (Part B)
Theoretical Flashpoint:	Resin: 259°F (137°C) Hardener: 449°F (232°C)
Viscosity (@77°F/50% RH)	
Mixed (cps @ 10 rpm)	900-1100

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### CURE SCHEDULE

\* Tests conducted at 77°F/50% RH

Work Time:	20 minutes	
Gel Time (110 mL mix):	30-45 minutes	
Pot Life:	30-35 minutes	
Ambient Dry Time:	Light Foot Traffic	Full Foot Traffic
	8- 10 hours	18- 24 hours
Recoat:	Minimum Recoat Time	Maximum Recoat Time
	8- 10 hours	48 hours

### THEORETICAL COVERAGE

5 Mils:	320* ft <sup>2</sup> /Gallon
10 Mils:	160* ft <sup>2</sup> /Gallon
*Depends on Porosity	

### SHIPPING INFORMATION

Packaging:	3G, 15G, 157.5G (G = Gallon Units)
Shelf Life (Indoors @ 40-100°F):	12 Months

### SOLID PHASE PHYSICAL PROPERTIES

Finish:	75- 85 Gloss
Color:	Clear
Components:	Two
Curing Mechanism:	Chemical reaction
Dry Film Thickness:	5- 25 mils (depends on system)
Total Coats:	1 or more
Elongation:	>56%
Hardness:	Shore D (24 hrs): 60 Shore D (final): 68
Impact Resistance:	Direct: >88 in./lbs.
Abrasion Resistance (taber, 1,000g per arm) (CS-17):	63 mg (1,000 cycles)
Bond Strength (Concrete):	>600 psi (concrete failure)
Dry Temperature limits:	200°F (100°C)

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## SYSTEMS

- NEAT - Clear & Colors
- SHOP FLOOR - 2x Sand
- FLAKES
  - 1x
  - 2x
- QUARTZ
  - 1x
  - 2x
- METALLICS
  - BC & Metallic

## SAFETY

For your safety, all required personal protection equipment should be used when operating machinery or handling chemicals. Concrete dust is a source of silica particles and other hazardous materials that can cause silicosis and other illnesses. Proper safety equipment and methods are the responsibility of the installation company, general contractor, and/or facility owner.

## WARRANTY

IntegraCoat Solutions warrants its products to be free from defects in material and workmanship. IntegraCoat Solutions' sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at IntegraCoat Solutions option, to either replacement of products not conforming to this Warranty or credit to the Buyer's account in the invoiced amount of the nonconforming products. Any claim under this warranty must be made by the Buyer to IntegraCoat Solutions 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 ship date, whichever is earlier. Buyer's failure to notify IntegraCoat Solutions of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

IntegraCoat Solutions makes no other warranties about the product. No other warranties, whether expressed, 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 IntegraCoat Solutions, 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 the 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 procedure of use, or extrapolation of data may cause unsatisfactory results.

## LIMITATION OF LIABILITY

IntegraCoat Solutions' liability on any claims based upon IntegraCoat Solutions' negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or parts thereof which give rise to the claim. In no event shall IntegraCoat Solutions be liable for consequential or incidental damages.

## LITERATURE REVISION - PDS: MPE Multi-Purpose Epoxy - Rev. 240305

Published literature is subject to change without notice. IntegraCoat Solutions is constantly engaged in the testing of existing formulations, the development of new innovative technologies, and the evaluation of the latest practices. The latest literature should always be consulted at [www.integracoat.com](http://www.integracoat.com).