

Form No. TDS-MARK586-112016

MARK-58.6

Water-Based Epoxy Concrete Treatment Coating

Please use this Technical Data Sheet (TDS) in conjunction with this product's country-specific Safety Data Sheet (SDS) and the Safe Use conditions as described therein. Current Safety Data Sheets can be requested from Olin POLY-CARB at customerservice@poly-carb.com.

Description

MARK-58.6 is a self-priming, water-borne epoxy emulsion coating.

Introduction

MARK-58.6 is an environmentally friendly emulsion epoxy coating with low VOCs and no toxic fumes. The material is designed as a concrete coating system that may be applied vertically or horizontally without the use of a primer. The material has excellent UV resistance for an epoxy and has high abrasion resistance.

Typical Applications

Vertical and horizontal non-traffic bearing surfaces such as median barriers, noise barrier walls and building exteriors, as well as areas where there may be high foot traffic requiring harsh detergent washing.

Typical Properties

Properties of MARK-58.6 Part A and Part B

	Part A	Part B
Color	See Color Card	Milky
Mixing Ratio	4 Parts	1 Part
Shelf Life	2 years	2 Years

Properties of MARK-58.6

Pot Life 25°C (75°F ±2°F)	3-4 Hours
Initial Set 25°C (75°F ±2°F)	2-4 Hours
Initial Cure 25°C (75°F ±2°F)	24-36 Hours
Final Cure 25°C (75°F ±2°F)	72 Hours

Properties of Cured MARK-58.6

Property	Result	Test Method
Intercoat Adhesion	Excellent	
Pencil Hardness	>8H	ASTM D-2240
Bond Strength	>300 psi	ACI-503
Wear Index (CS-17 wheel, 1000 cycles)	<75 mg	ASTM C-501
Flexibility (180° bend, ½" mandrel)	No cracking, peeling or flaking	FTMS 141A, Method 6221
Chemical Resistance	Resistant to oils, grease, solvents, acids (organic/inorganic), alkalis, and most types of chemical spillage and industrial detergents.	

Application

METHOD OF APPLICATION

MATERIAL CONTAINERS ARE RECOMMENDED TO BE STORED IN A TEMPERATURE RANGE OF 65°F TO 85°F (20°C TO 30°C) FOR AT LEAST 24 HOURS PRIOR TO USAGE TO ENSURE PROPER MIXING AND APPLICATION PROPERTIES. DO NOT ALLOW MARK-58.6 TO FREEZE.

<u>Surface Preparation</u>: Concrete surfaces must be free of dust, oil, grease, waxes, previous sealers or coatings, and must be dry. All spalled concrete areas must be repaired before application of the sealer. Use mechanical abrasion methods such as sandblasting or scarification. In case of old or greasy concrete surfaces, sandblasting may be insufficient, making scarification necessary. In applications involving grease contaminated surfaces, wash the cleaned surface with water under high pressure. Dry the surface thoroughly. If moisture content is questionable, ASTM D-4263 Plastic Sheet Method may be performed to verify excess moisture.

Application: Before applying material, use a high torque, low speed mixer or ½" drill motor with an inverted cup shape. Mix 4 volumes Part A with 1 volume Part B in a clean, dry container using a low speed cup mixer. Mix approximately 3 minutes, or until the mixture becomes homogenous and consistent. The product does not require any induction time and can be used immediately after mixing the two components.

Once mixed, MARK-58.6 can be applied by brush, spray or short nap roller. Excessively thick wet films may trap water within the coating, causing an incomplete cure. A second coat may be applied as soon as the first coat is dry. Depending upon ambient temperatures, this may be between 2-4 hours.

Coverage

Coverage per gallon (in mils) according to the following table:

Floors: 120-175 Square feet/gallon Walls: 100-200 Square feet/gallon

Packaging

MARK-58.6

5 gallon units consisting of 4 gallons Part A and 1 gallon of Part B.

Clean Up

Clean all tools in warm water and soap. **MARK-305** solvent or any ketone solvent system such as MEK may be used for cleaning purposes after the system has started to set.

Limitations

- MARK-58.6 must not be allowed to freeze.
- The surface shall be fairly dry at the time of application.
- The surface and ambient air temperatures must be at or above 50° F for proper curing
 of the system
- MARK-58.6 should not be further emulsified or diluted with any solvent or diluents.
- MARK-58.6 should not be applied where the coated surface may be subjected to dry temperatures exceeding 130° F.

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