

ColyMastic 591

High Solids Surface Tolerant Epoxy Coating

Product Description

A high solids surface tolerant epoxy coating. It has good anti-corrosive properties, chemical and moisture resistance and provides very good adhesion to substrate as well as subsequent coatings. It is widely used as a primer, intermediate coat and finish coat for steel and concrete substrates in mild to aggressive industrial environments.

Product Information

Finish	:	Satin
Color	:	Limited Color Range
Component	:	2
Volume Solids	:	68.80 ± 2%
Specific Gravity	:	1.53 gr/ml
Flashpoint	:	> 34 °C

Application Information

Wet Film Thickness (μ)	:	86 – 228 / Coat
Dry Film Thickness (μ)	:	75 – 200 / Coat
Theoretical Spreading Rate (m ² /L)	:	3.4 – 9.2
Mixing Ratio	:	A/B : 80/20 By Volume

Application Methods

Brush & Roller	:	Recommended for stripe coating and small areas only
Airless Spray	:	Recommended Tip Size: 0.53 – 0.63mm (21 – 25 thou)
	:	Recommended Pressure: 140 – 165 kg/cm ² (2000-2400 psi)
Thinner / Cleaner	:	Thinner C50

Drying & Curing Time					
Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Minimum	Maximum	
10 °C	10 hours	20 hours	20 hours	Indefinite	3 hours
25 °C	6 hours	18 hours	18 hours	Indefinite	2 hours
30 °C	3 hours	12 hours	12 hours	Indefinite	1 hours

*The properties above may vary with surface temperature, site environment, film thickness, etc.

Packing & Storage

Packing	:	5.0 Liters (4 Liters Part A : 1 Liters Part B)
	:	20.0 Liters (15 Liters Part A : 5 Liters Part B)
Shelf Life	:	12 Months (Unopened)
Storage	:	Cool, dry and well ventilated area away from heat and direct sun light. Lid must be kept tightly closed.



COLY COATING SDN BHD

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Technical Data Sheet

Technical Data Sheet - ColyMastic 591

Surface Preparation

All surface to be coated should be clean, dry and free from contamination as in accordance to ISO 8504. Oil and grease must be removed by solvent cleaning as in accordance to SSPC -SP1. ColyMastic 591 is recommended to be applied over steel substrates with surface preparation to a cleanliness of Sa 2 or St 3 (ISO 8501:1 - 1:2007) The surface should also be clean, dry and free from all contamination. ColyMastic 590 must be applied within the recommended overcoating intervals.

Recommended Painting System

Painting System	Product
Primer	: ColyMastic 591 1 Coat
Intermediate	: ColyMastic 591 1 Coat
Finishing	: Recommended Coly Epoxy or Polyurethane Finish 1 – 2 Coats

Preapplication Conditions

- 1) The surface temperature should be 3°C above the dew point and should not exceed 50°C.
- 2) The relative humidity should be between 60% and 85%.
- 3) Paint application shall not commence when there is a likelihood of an unfavourable change in weather condition within 2 hours after painting.
- 4) The Hardener (Part B) should be added to the Base (Part A) slowly while stirring with a mechanical agitator. Ensure all components are mixed together in a uniform and homogenous manner before application.

Product Limitations

Common with all epoxies, ColyMastic 591 will chalk and discolour on external exposure and weathering. This phenomenon is not detrimental to the paint's anti-corrosive performance. ColyMastic 591 is recommended to be overcoated with durable high performance polyurethane finish for better weathering resistance. Maximum film build in a single coat is best achieved by airless spray. For brush and roller applications, multiple coats will be required to achieve the required DFT.

Safety Precaution

This product is flammable and must be kept away from any source of ignition. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. Keep out of reach of children.

Disclaimer: The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our product by be used, we can only guarantee the quality of the product itself. We reserve the right to alter the given data without prior notice.



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