KARUMEL EX4505(S)-TX

KARUMEL EX4505 is a epoxy/polyester resin based thermosetting powder coatings with texture finished appearance.

It has excellent flexibility, corrosion and chemical resistance.

Recommended	As a protective and decorative coating for use on electric home appliances, pipe, building materials, etc.				
use	Not recommemded for exterior.				
Physical Pro	operties				
Finish and	Semigloss				
Color	Colors are available on request.				
Dried film	The data are typical for EX4505 applied to Cold Rolled Steel panels(thickness 0.7mm)				
Properties	pretreated with zinc phosphate, coated with a thickness of ca. 60µm, and cured at 180°C (356°F) for minutes.				
	Typical values for semi glossy white powder coating.				
	Property	Test Description	Result		
	Adhesion	Cross-cut 100 / 100 (1 mm)	100 / 100		
	Impact	Dupont Impact tester(Φ1/2")	500 g / 30 cm		
	Bending	Mandrel Tester	No Crack		
	Salt spray resistance	5% NaCl Fog, 240 hr	Good		
Specific gravity	Air Pycnometer method, $1.3 \sim 1.7$ g/cm ² according to color				
Spreading rate	e 60 µm dry film thickness 9.3 ~ 12.2 m²/kg				
(Theoretical)	* There is difference in recovery ratio of powder.				
Application	details				
Surface	The surface must be clean and free from rust, dust, oil, grease and other				
preparation	contamination. Types of pre-treatment are recommended as follows: * Steel : Iron or Zinc Phosphating				
	* Aluminum : Chromating				
Film thickness	Dry film thickness : 50 \sim 90 μ m				
Drying time	The following theoretica	e following theoretical curing schedules are recommended to achieve the best performance properties.			
	Temperature	Cure Time			
	180℃(356°F)	14 minutes(M.P.T)			
	* The cure time may have deviations influenced by various factors.				
	* M.P.T means metal peak temperature				
Storage and	package				
Shelf life	12 months at 25°C(77°F) with relative humidity 65% sealed state cool and dry place				
	(Cooler temperature and lower humidity are recommended)				
Packing Unit	20kg				

Remarks			
Handling	Do not mix the powder with other powder even if it is small amount.		
Precautions	Recovered powders should be incorporated with virgin powders for re-use, only after sieving and at a		
	recommended maximum of 30%.		
	A structure finish requires a recommended film thickness of 50 \sim 90 μ m to allow proper coverage.		
	Exact application and cure conditions need to be followed to maintain consistent texture finish.		
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Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

