



KARUMEL EX8700 is an epoxy resin based thermosetting powder coatings with excellent chemical, corrosion resistance and adhesion. It forms hard and tough film with excellent flexibility, hardness, and dielectric properties.

Recommended use	As a protective and decorative coating for use on a heavy-duty products, electric appliances, automobile parts, pipe, building materials, etc. Not recommended for exterior
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Physical Properties

Finish and Color	Gloss Colors and patterns are available on request.																						
Specific gravity	1.3~ 1.7 according to color																						
Spreading rate (Theoretical)	9.3~ 12.2m ² /kg in 60μm dry film thickness on a smooth surface.																						
Film properties	<p>The data are typical for EX8700 applied to Cold Rolled Steel panels (thickness 0.7mm) pretreated with zinc phosphate, coated with a thickness of ca. 60μm, and cured at 180°C/356°F for 10 minutes.</p> <p>Typical values for glossy black powder coating.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Property</th> <th style="width: 33%;">Test</th> <th style="width: 33%;">Result</th> </tr> </thead> <tbody> <tr> <td>Adhesion</td> <td>Cross-cut 100/100, 1mm tester</td> <td>100 / 100</td> </tr> <tr> <td>Gloss</td> <td>Gloss meter(60°)</td> <td>Above 70%</td> </tr> <tr> <td>Hardness</td> <td>MITSUBISHI UNI Pencil</td> <td>F-H</td> </tr> <tr> <td>Impact</td> <td>Dupont Impact Tester(1/2"Φ)</td> <td>1kg/30cm</td> </tr> <tr> <td>Bending</td> <td>6 mm Mandrel at 180°</td> <td>No crack</td> </tr> <tr> <td>Ericksen</td> <td>Ericksen tester</td> <td>Above 6mm</td> </tr> </tbody> </table> <p>* Values will vary with color.</p> <p>Corrosion Resistance Salt spray(5% NaCl Fog, at 35°C/95°F);200~2000 hours according to substrate and surface treatment.(Determined by KSD 9502 or JIS Z 2371)</p>		Property	Test	Result	Adhesion	Cross-cut 100/100, 1mm tester	100 / 100	Gloss	Gloss meter(60°)	Above 70%	Hardness	MITSUBISHI UNI Pencil	F-H	Impact	Dupont Impact Tester(1/2"Φ)	1kg/30cm	Bending	6 mm Mandrel at 180°	No crack	Ericksen	Ericksen tester	Above 6mm
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Application details

Surface preparation	The surface must be clean and free from rust, dust, oil, grease and other contamination. Types of pre-treatment are recommended as follows : * Steel : Iron or Zinc Phosphating * Aluminum : Chromating
Film thickness	For normal range 60~90μm
Drying time	Gloss : 180°C (356°F) × 10 minutes(M.P.T)

Storage and package

Shelf life	12 months in dry conditions at less than 25°C (77°F)
Packing Unit	20 kg

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%.
1'st issue	2011-09-01
Revision	

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.

