KARUMEL EX6100 is a epoxy/polyester resin based thermosetting powder coatings with metal finished appearance by

bonding metallic pigment.

Recommended	As a protective and de	corative coat	ing for use on interio	r products, home	e electric appliances, etc.		
use	* Not recommend to exterior						
Physical Pro	operties						
Finish and	Metallic.						
Color	Colors and patterns are available on request.						
Dried film	The data are typical for EX6100 applied to Cold Rolled Steel panels (thickness 0.7mm) pretreatred with						
Properties	zinc phosphate, coated with a thickness of 60,4m, and cured at 180°C (356°F) for 10 minutes.						
	Property	Test	Description	Result			
	Adhesion	Cross-cut 1	00/100, 1mm tester	100/100			
	Gloss	Dupont Imp	pact Tester(1/2"Φ)	500g/30cm	I		
	Bending	6mm N	landrel at 180º	No crack			
	Erichsen	Eric	hsen tester	Above 6mm	۱		
	Salt spray resistance	Salt spra	ay tester, 240hrs	Under 3mm	I		
	* Salt spray resistance	e according to	substrate and surface	ce treatment.			
Specific	Air Pycnometer Method 1.3 $\sim$ 1.7 g/cm <sup>*</sup> according to color						
gravity	-						
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 contamination.						
preparation	Types of pre-treatment are recommended as follows:						
	* Steel : Iron Phosphate or Zinc Phosphate						
	* Aluminum : Chromate						
Film thickness	Dry film thickness : 50 $\sim$ 90 $\mu$ m						
Drying time	The following theoretical curing schedules are recommended to achieve the best performance p						
	Temperature		Cure Time				
	180°C(356°F)Gloss		10 minutes(M.P.T) 14 minutes(M.P.T)				
	180°C (356°F) Semi-gloss, Flat- gloss						
	<ul> <li>* The cure time may have deviations influenced by various factors.</li> <li>* M.P.T means metal peak temperature.</li> </ul>						
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 lawer humidity are recommended)						

(Cooler temperature and lower humidity are recommended)

Packing Unit | 20 kg

Remarks				
Handling	1. Do not mix the powder with other powder even if it is small amount.			
Precautions	2. Recovered powders should be incorporated with virgin powders for re-use, only after sieving and at a			
	recommended maximum of 30%.			
	3. Keep the curing condition.			
	1) Exact application and cure conditions need to be followed to maintain consistent metallic finish an			
	properties.			
	2) Colors and patterns could be differed by spray gun or substrate.			
	3) Prevent the inflow of dirt and pollutant, because it is easy to find crater or dirt			
	4. Separation of metallic and mica pigments can take place from the powder during application.			
	5. In principle, it is not recommend to paint metallic powder coating unilaterally.			
	6. Clear top coating is recommended where chemical resistance is required.			
1'st issue	2018–10–24			
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.

