

Technical Data Sheet

Polyurethane



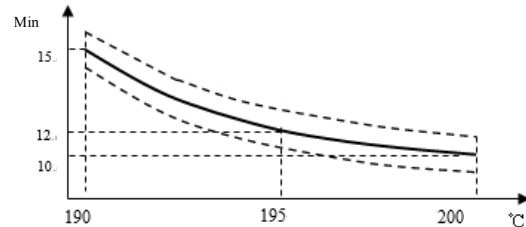
POWDER DESCRIPTION:

Polyurethane coatings provide excellent weathering resistance, excellent corrosion resistance, excellent toughness and mechanical properties. In addition, this type of coatings is specially designed for customers who are looking for outstanding outdoor durability. We have variety types of Polyurethane products, such as high gloss, semi-gloss, flat and metallic.

APPLICATIONS:

Recommend Curing Schedule:

15 min. @ 190 °C (375 °F)



POWDER PROPERTIES:

Specific gravity (g/ml):	1.4 ~ 1.6
Particle size:	Suitable for electrostatic spray
Coverage at 1.0 mil (m ² /kg)	16.52 ~ 28.35 (80.66 ~ 138.42 ft ² /lb/mil)
Storage conditions:	Dry cool in door condition (< 30°C or < 86°F)
Shelf life:	12 months, typical

COATING PROPERTIES:

ASTM D-1400-00	Film Thickness	60~80um (2.36~3.15mils)
ASTM D-3363-00	Pencil Hardness:	2H
ASTM D-3359-02	Adhesion:	4B~5B
ASTM D-522-93A	Flexibility:	0 mm (No crack)
ASTM D-523	Gloss 60 Degree	2~80
ASTM D-2794	Impact Resistance:	160/160 inch-pounds
ASTM B117-2011	Salt Spray	>1000 hrs.
ASTM D-4587	UV Resistance	Excellent

SUBSTRATE PREPARATION:

The coated surface of substrate (aluminum, steel or zinc) must be cleaned from oils, grease, dirt, fingerprints or flash rust in order to ensure optimum mechanical and coating performance properties. If particular resistance to corrosion or humidity is required, it is suggested the following pretreatment of the surface:

- ✓ Aluminum: chromate conversion coating, chrome free pre-treatment (request before specific application)
- ✓ Steel: sand blasting; iron or zinc phosphatizing
- ✓ Galvanized steel: zinc or chromate conversion; sweep blasting

INFORMATION ABOUT SAFETY AND STANDARD:

- ✓ In compliance with RoHS, no hazardous materials such as Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr⁶⁺), Polybrominated biphenyls (PBB) and Polybrominated diphenyl ether (PBDE) have been added.
- ✓ Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) can be complied upon customer's request.
- ✓ ISO9001:2000 Quality Control Management System Certification.

WARRANTY POLICY: The information provided above is to the best of our knowledge, belief true, correct and complete. Since the operation procedures, operation conditions, and other local factors are beyond our control, Beyond Powder Coatings Ltd. assumes no liability for coating failures other than to provide replacement for powder coatings that have shown to be defective. We also recommended you to perform your own test to determine to your best interests. This warranty is expressly in lieu of all other warranties. Beyond Powder Coatings Ltd. will not be liable for any human injuries, operation assets damage, or other losses as a consequence of Customer's use of the product.