



Group	311 – Hybrid (Epoxy Polyester) High Gloss
Curing	min: 180°C @ 20' to 30' max: 200°C @ 10' to 15'
Surface	Smooth high gloss appearance
Brilliance	85 - 95 (60°)
Approvals	

PRODUCT DESCRIPTION

This thermosetting powder contains epoxy and polyester resins.

The product forms a level hard film with good resistance to mechanical damage, most chemicals, such as detergents, fuels and oils.

It has good resistance to yellowing caused by the chain stop during stoving.

The product is designed for interior coating and has excellent protective and decorative effects.

Storage Life :

Store at temperatures lower than 30°C.

Storage life in original package: 18 months.

CHARACTERISTICS

Spec. Gravity (kg/l): 1,30 – 1,90

DFT (micron): 60 - 80

Theoretical Coverage (m²/Kg @60µ): 11

Recommended film thickness:

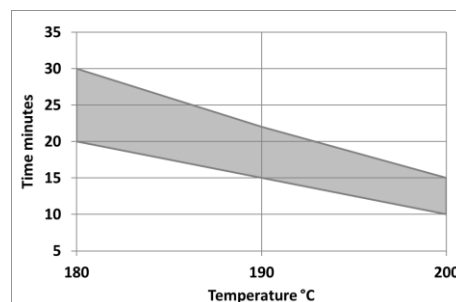
Dry: 60 - 80 µm

APPLICATION

Suitable for automatic and manual electrostatic application
Please contact your Sherwin-Williams representative to discuss tribo-static application

Curing Cycle

Time	Substrate temperature
10-15 min	200°C
15-22 min	190°C
20-30 min	180°C

**SUBSTRATE PREPARATION**

The surface to be coated must be free from oil, grease and flash rust.
A good quality pre-treatment process is recommended for optimum performance.

Aluminum: chromate, phospho-chromate conversion (DIN 50939) or other Cr-free pretreatment

Steel: sand blasting or/and iron or zinc phosphatizing

Galvanized steel: chromate (DIN 50939), phosphate or Cr-free pretreatment

PERFORMANCE DATA

A test panel zinc phosphatised steel (UNI sheet), DFT 60 microns, stoving 10 minutes at 200°C satisfied the following requirements,

Buchholz indentation test:

more than 90
UNI EN ISO 2815

Pendulum-rocker hardness :

Persozpendulum
more than 300
UNI EN ISO 1522

Erichsen cupping test (mm):

more than 3
UNI EN ISO 1520

Direct impact test (cm.Kg):

more than 20
ASTM D 2794; ISO 6272-2:2002

Reverse impact test (cm.kg):

more than 5
ASTM D 2794; ISO 6272-2:2002

Conical mandrel : Bend test

Maximum 20mm

Crosscut adhesion (2mm) (GT):

Class 0
UNI EN ISO 2409

Salt fog test :

1000 hours
Scribe corrosion 3-6 mm
UNI ISO 9227

Resistance to humidity:

(Humidity test) 500 hours
no change
UNI EN ISO 6270-2:2005

CAUTION**FOR INDUSTRIAL SHOP APPLICATION**

Thoroughly review product label and Safety Data Sheet (SDS) prior to using this product.

A Safety Data Sheet is available from your local Sherwin-Williams facility or distributor

Note: Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the user obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in user handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.