

TECHNICAL DETAILS

Product range formulated with polyester-epoxy resins characterized by excellent mechanical properties and higher resistance to thermal yellowing when compared to Amiksyd range.

PHYSICAL PROPERTIES AND STORAGE

- **Packaging:** Securely sealed plastic bag and 20 kg cardboard box.
- **Storage Stability:** 24 months in a dry place at below 35°C.
- **Specific Weight:** Between 1,3 - 1,7 g/cm³, depending on the individual colour.

APPLICATION

An electrostatic gun (corona) with a minimum voltage of 30 kV or electro-kinetic application (tribo).

PRODUCT RANGE

AMIPOX: products characterized by excellent mechanical properties, chemical resistance and perfect fluidity. Finishes available in this product range: gloss, semi-gloss, semi-matt, matt and deep matt; smooth, textured, medium structure; metallic, transparent, hammered and antique effects.

POLYMERIZATION CURVE

Polymerization time in minutes depending on the temperature of the object being cured.

	200°C	190°C	180°C	170°C	160°C
Products with standard polymerization time	8	10	15		
Matt and semi-matt products with standard polymerization time	10	15			
Products with low-temperature polymerization				12	15

GLOSS LEVELS (measured at an angle of 60°)

Gloss	>75%
Semi-gloss	50-75%
Semi-matt	30-50%
Matt	15-30%
Deep matt	<15%

MECHANICAL PROPERTIES

Adherence	ISO 2409	GTO – 0
Pencil hardness	ISO 15184	2H-3H
Bend testing (conical mandrel 6 mm)	ISO 1519	Positive result
Direct and reverse impact	ISO 6272 – 1	350-600 mm (gloss)
Direct and reverse impact	ISO 6272 – 1	250-350 mm (matt)
Cupping test	ISO 1520	> 4 mm
Scratch resistance (Clemen Test)	ISO 1518-1	1-4 N

CHEMICAL PROPERTIES

Salt spray	ISO 9227	500 hours (corrosion of below 2 mm)
Immersion in water		500 hours (no blistering or gloss reduction)

Each powder coating may have its own coordinates for colour measurement, specific weight and particle size distribution.

NOTES

The mechanical tests have been carried out on aluminum panels while the chemical tests have been made on phosphatized steel panels. The average application thickness has been 70-90 microns. The coated panels have been polymerized at the recommended temperature. In case of medium structures, hammered and antique effects, the recommended coating thickness for an individual product is given in the Technical Data Sheet.

*Please note that the results shown in this page of technical details are based on our current knowledge. The tests have been carried out with maximum objectivity, however we cannot guarantee the end results obtained by the product's user.