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TECHNICAL DATA SHEET

DURPOL PUR 8T400001C000 (EX 8040A0285) NEUTRAL TRANSP M

X SELF-LOCKING

Composition

Transparent powder based on hydroxylated saturated polyester resins hardened by cycloaliphatic blocked isocyanates adequate for obtaining polyurethane films. This powder is formulated with pigments suitable for achieving good resistance to yellowing, UV rays and weathering agents

Recommended uses

Powder indicated for coating of artefacts with high aesthetic level due above all to obtainable good distention. The powder has good resistance to UV rays and weathering agents as well. It is therefore suitable for coating of motorcycles and bicycles, domestic appliances, lighting elements, cars and industrial or agricultural accessories. This product can be used as second hand like protection of a first hand coating as well. In order to obtain an excellent protection, it is necessary to spray an average thickness of 70-80 micron.

Substrate pre-treatment

Powders adhere to most metal surfaces provided these are dry, clean and degreased. A chemical pre-treatment of the surface is required in order to improve the resistance against the corrosion, based on the kind of metallic support.

Application

This powder is suitable for use with electrostatic spraying equipments whose voltage is between 40 and 90 KV. Where acronym "TS" is present, our products are working also with triboelectrical guns. A difference of thickness of applied coating can generate modification of the appearance of hardened coating. In case of products having special effects, the use of recovered powder is not advised except for bonded products.

Polymerization conditions

190°C x 30', 200°C x 20', 210°C x 12' (piece temperature)

Characteristics after polymerization (application on steel panel)

Erichsen Drawing:	≥ 5 mm	ISO 1520
Mandrel Bend Test:	≥ 5 mm	ISO 1519
Impact Resistance:	$\geq 2,5$ Nm	ASTM D2794
Buchholz Hardness:	≥ 80	ISO 2815
Cross Cut Test:	Gt0	ISO 2409
Gloss 60°:	10-40 gloss	ISO 2813

Chemical resistance

The product has good resistance to most 10% acids and to ethylalcohol at room temperature (25°C). For specific requests we invite you to contact our technical assistance.

Corrosion resistance (application on iron-phosphate bonder)

Humidity Chamber:	After 500 hours no change.	ISO 6270
Kesternich:	After 10 cycles no loss of adhesion.	ISO 22479
Salt Spray:	After 1000 hours < 1 mm penetration.	ISO 9227

Accelerated ageing (QUV-B) (313 nm) with QUV/SE cycle 4 hours, condensation at 40°C/4 h irradiation 50°C (0,75 W/m²/nm. Application on aluminium panel)

Test:	QUV-B (313 nm) after 300 hours loss of gloss < 50%.	ISO 16474:3
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Storage

The product is guaranteed for 12 months since production date whether stored in a temperature not over 30°C and in the original packaging.

Notes:

- * The above data are the results of careful researches and our long experience, nevertheless considering the large number of factors concurring to determine the values in the present technical data sheet, the utilizer will have the duty to effect the best conditions so as to get the best result.
- * This product is destined to be used only in industrial plants. The manipulation of the product from the utilizer must be conform to laws concerning the use of powder coatings and to information described in our technical data sheet sent together with the product itself.

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