Scheda tecnica

Y54BD - ENG
version 3.2013

selac®

Codice Y54BNFQ INTERGALACTIC SPACE BD T DG J 20.20

HOMOLOGATED POLYESTER

λ Description

Thermosetting powder coating with matt metallic finish , based on saturated carboxylated polyester resins , suitable crosslinker , inert fillers and pigments without heavy metals .

λ Specific uses

The product is particularly suitable for the coating of goods exposed outdoor , for which excellent weather resistance to ageing without yellowing or chalking is required .

λ Surface preparation

Related to the support to be coated we strongly recommend a correct preparation based on blasting , zinc or iron salt phosphatation , but at least an accurate degreasing . Anticorrosive properties , adhesion and time duration are greatly influenced by the pre-treatment

λ Application

Application is possible with manual or automatic electrostatic guns , working with corona (minimum voltage 40KV) or triboelectric charging system . The bonding process allows a more stable colour even using recycled powder . In case of triboelectric application the fiish could anyway result a little less metallic . Codes having "D" in fourth position are suitable for application by electrostatic disc .

λ Curing conditions

Curing time depends not only on the product reactivity , but also on the oven efficiency and on the mass of the parts to be coated . Suggested curing conditions are :

Time (minutes)	Temperature (°C)
10 - 20	180
8 - 16	190
7 - 13	200

Curing in the minimal conditions is possible but could not allow to obtain the complete properties mentioned in the section aside . Times and temperatures always refer to the object .

λ Technical features

Specific gravity	[kg/l]	1,21	1,27
Brilliance (ISO 2813)	[60° Gloss units]	VIS	VIS
Thickness	[µm]	70	90
Theoretic yield	[m^2/kg]	8,7	11,8

λ Mechanical properties

Bending on cylindrical mandrel (ISO 1519)	[mm]	5	6
Erichsen embossing (ISO 1520)	[mm]	7	9
Direct impact (ISO 6272)	[Nm]	> / =	2,5
Cross-hatch adhesion (ISO 2409)		0	1
Wolf-Wilborn pencil hardness (ASTM D 3363)		H	2H
Buchholz hardness (ISO 2815)		> / =	85

Mentioned values are obtained on UNI 5961 panels , 0,5 mm thick , previously degreased with perchloroethylene . Film thickness 80 micron approximately .

λ Corrosion and wheathering tests

Salt spray test (ISO 3768 - ASTM B117)	1000 hours
Kesternich test (ISO 3231)	30 cycles
Humidity chamber test (ISO 6270)	1000 hours
UV-CON (ASTM G 53-88) 50% residual retention	after 300 hours

Mentioned values are obtained on UNI 5961 panels , 0,5 mm thick , with microcristalline zinc salts phosphatation or on chromated AA 5005-H24 aluminium . Film thickness 80 micron approximately .

λ Homologations

QUALICOAT	LICENZA P - 1323
GSB	LICENCE 179C

λ Storage stability

This product , if kept in sealed boxes stored in a dry place at a temperature not exceeding 30° C is stable and guaranteed for 12 months after the production date .

λ Safety informations

Powder coatings are considered combustibles but not inflammable . The ignition temperature of the mixture powder / air is in the range between 450 and 600 °C . For further safety informations please refer to specific Safety Data Sheet compliant with Regulation CE 1272 / 2008 (CLP)

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Remarks : the above mentioned informations come from our experience , as well as that of specialized laboratories , and they are constantly updated ; anyway the user undertakes full responsability about application and testing of the products according to his requirements . This data sheet is given in order to inform about the main characteristics of the product , but it is not a warranty .

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