

selac®

Codice

Y57PMI3 NATURAL RUST RAG MRZ T DG J 20.20

HOMOLOGATED POLYESTER

λ Description

Thermosetting powder coating with textured metallic or salt and pepa 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. In case of triboelectric application a slightly different effect could be obtained. Recycling of the powder should not exceed 5% and a careful control is always necessary. 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]	1,37	1,43
Brilliance (ISO 2813)	[60° Gloss units]	VIS	VIS
Thickness	[µm]	70	90
Theoretic yield	[m²/kg]	7,8	10,4

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 weathening 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 microcrystalline zinc salts phosphatation or on chromated AA 5005-H24 aluminium. Film thickness 80 micron approximately.

λ Homologations

QUALICOAT LICENCE P - 0590

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 36 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)

Date of issue
6 2017

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 responsibility 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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