

selac®

Codice Y57BKDC ICE CRYSTALS RAG BD T DG J 20.20

HOMOLOGATED POLYESTER

λ Description

Thermosetting powder coating with textured 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] | 1,45 | 1,51 |
| Brilliance (ISO 2813) | [60° Gloss units] | VIS | VIS |
| Thickness | [µm] | 70 | 90 |
| Theoretic yield | [m ² /kg] | 7,4 | 9,9 |

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 weathering 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 .