

**selac®**

**Codice Y51BGML DOLOMITES PEAKS BD T DG J 20.20**

**HOMOLOGATED POLYESTER**

**λ Description**

Thermosetting powder coating with glossy 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]               | 1,57 | 1,63 |
| Brilliance ( ISO 2813 ) | [60° Gloss units ]   | VIS  | VIS  |
| Thickness               | [µm]                 | 70   | 90   |
| Theoretic yield         | [m <sup>2</sup> /kg] | 6,8  | 9,1  |

**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 - 0504 |
| GSB       | LICENCE 179A     |

**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 .**