

Product Data Sheet

AkzoNobel Powder Coatings Interpon D3020 Matt (25)

Product Description

Interpon D3020 is a series of hyperdurable powder coatings designed to meet the most demanding architectural specification requirements in the world. AkzoNobel's Fluorocarbon technology uses innovative fluorocarbon polymer chemistry that is designed to provide maximum gloss and color retention in service.

Interpon D3020 is also designed to provide excellent cosmetic and functional protection whilst exploiting the recognized benefits of powder coatings complying with QUALICOAT Class 3.

Interpon D3020 is awarded the prestigious Qualicoat Class 3 approval for hyperdurable architectural powder coatings and conforms to the requirements of AAMA-2605-13, EN12206 and GSB Premium specifications.

Qualicoat License Number: P-1175 (Turkey)

GSB License Number: 246b

Powder Properties

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|--|---|
| Chemical type | Fluoropolymer |
| Gloss (EN ISO 2813 (60°)) | 20-30 gloss units |
| Particle size | Suitable for electrostatic spray |
| Specific gravity | 1.2 – 1.7 g/cm ³ depending on colour |
| Storage | Dry cool conditions below 25°C (<i>open boxes must be resealed</i>) |
| Shelf life | 6 months below 25°C |
| Stoving schedule (Object Temperature) | 20-35 minutes at 190°C 15-25 minutes at 200°C |

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

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|---------------------------|--|
| Substrate | Aluminium (0.5-0.8 mm Al Mg1) |
| Pretreatment | Chromate (DIN 50539) |
| Dry film thickness | 50 – 80 microns |
| Stoving schedule | 20 minutes at 200°C (object temperature) |

Mechanical Tests

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|--------------------------|------------------------------------|---|
| Flexibility | ISO1519 (cylindrical Mandrel) | Pass Qualicoat class 3 requirements |
| Adhesion | ISO2409 (2mm crosshatch) | Gt0 |
| Erichsen cupping | ISO1520 | Pass Qualicoat class 3 requirements |
| Impact | ISO6272 | Pass Impact powder > 2.5Nm No detachment after pull test |
| Buchholz hardness | ISO2815 | Pass Qualicoat class 3 requirements |
| Boiling water | Qualicoat 13 th ed.2.16 | Pass at 0 grade, the cut space depends on thickness |

Chemical Tests

| | | |
|--------------------------------------|------------|--|
| Neutral salt spray | ASTM B-117 | Pass at 4000 hours |
| Acetic acid salt spray | ISO9227 | Pass 2000 hours, Blistering<2 Infiltration length<4mm |
| Constant Climate Condensation | ISO6270-2 | Pass 2000 hours, Blistering<2 Cross infiltration <1mm |

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| Sulfur Dioxide | | Pass 24 cycles – no change in colour or blisters in excess of S2 |
| Permeability | EN12206-2004 | Pressure Cooker – pass 1 hour no defects No blistering in excess of 2 (S2) |
| Chemical resistance | Generally good resistance to acid, alkalis and oil at normal temperatures | |
| Mortar resistance | EN12206-2004 | No defects, no colour change after 24 hours |
| Exterior durability | ISO2810 | Meets Qualicoat class 3 requirements after 10 years Florida Meets AAMA 2605-13 requirements after 10 years Florida |
| Accelerated weathering | ISO 11341 | Pass 200 hours Gloss retention >90% Color change: not greater than 50% of the limits prescribed in Qualicoat 13 th A.7 |
| Polymerization Test | Qualicoat 13 th 2.14 | Pass – Slight gloss loss |

Pretreatment

For maximum protection it is essential to pretreat architectural components prior to the application of **Interpon D3020** in accordance with the Interpon D *Approved Applicator Manual*. Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment to clean and condition the substrate.

Detailed advice should be sought from the pre-treatment supplier.

Application

Interpon D3020 Matt powders can be applied by manual or automatic electrostatic spray equipment. For solid shades, unused powder can be reclaimed using suitable equipment and recycled through coating system. The recycled powder should not exceed 20%. For certain special finishes, advice must be sought from Akzo Nobel as to the suitability or otherwise of the product for recycling.

Interpon D3020 is slightly incompatible with other powder coatings. It is therefore recommended to thoroughly clean the entire coating prior to and after the powder application.

Interpon D3020 is based on fluorocarbon polymer chemistry hence corona application is recommended to get proper charging. Please contact Akzo Nobel or consult with your equipment supplier for alternatives.

Post Application

For specific advice on the suitability of post coating processes such as bending or the use of sealants, adhesives, thermal break, cleaning etc, please consult AkzoNobel.

Maintenance

For specific advice on Cleaning and Maintenance, please consult the Interpon D series *Cleaning and Maintenance Guidelines* available from AkzoNobel.

Safety Precautions

Interpon D3020 series contains caprolactam. When using, do not eat, drink or smoke. Do not breathe in the dust. In case of insufficient ventilation, wear suitable respiratory equipment.

For further information, please consult the Material Safety Datasheet (MSDS) available from AkzoNobel.

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Disclaimer

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IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product.

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