



HMG Powder Coatings Limited

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Anti-Graffiti

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| Product Description | Designed for both exterior and internal use, this range of powder coatings offers both superdurable UV resistance, excellent aesthetics and anti-graffiti properties. Particularly formulated for use in urban areas, such as street furniture, signs, etc., the coating can be cleaned using xylene, acetone, trichloroethylene or a proprietary graffiti remover. Aerosol paints and marker pens can be removed without staining or damaging the underlying coating. | | |
| Powder Properties | Chemistry | Thermosetting hydroxyl functional polyester cured with a blocked isocyanate curing agent. | |
| | Application | Corona electrostatic spray. The system can be modified for Tribo application as required. | |
| | Coating Thickness | Depending on covering power and shade, general recommendation is 60-100 microns (μm), with a minimum thickness of 60 μm . | |
| | Gloss (ISO 2813) | Semi-Gloss (60-70 GU) and Gloss (>80 GU) | |
| | Specific Gravity | 1.40 – 1.70 g/cm ³ depending on colour. | |
| | Coverage | From 10-14 m ² /kg at 60 microns film thickness. | |
| | Storage & Shelf Life | When stored in a cool (<20°C),, dry environment: 12 months. | |
| | Curing Schedule | 10 minutes at 200 Celsius (object temperature) <i>Full cure is critical to obtain full anti-graffiti properties</i> | |
| Pretreatment | To ensure maximum adhesion the substrate must be thoroughly clean, free from grease, oil, rust, mill scale or any other contaminant. Cleaning may be carried out either by shot blasting, solvent or chemical degreasing. For applications where high corrosion or chemical resistance is required the substrate should be chemically treated prior to powder coating, typically: | | |
| | Ferrous substrates | iron or zinc phosphate | |
| | Zinc coated steel | zinc phosphate or chromate conversion | |
| | Aluminium | chromate conversion | |
| Mechanical Tests | Unless otherwise specified, all tests were carried out under laboratory conditions on 0.8mm degreased and zinc phosphated steel panels. A powder coating DFT of 60-70 microns was used. | | |
| | Hardness | ISO 2815 Buchholtz Indentation | >85 |
| | Flexibility | ISO 1519 Cylindrical Mandrel | Pass >3mm |
| | Adhesion | ISO 2409 2mm Crosshatch | Pass Gt0 |
| | Cupping | ISO 1520 Erichsen | Pass >4mm |
| | Impact | BS 3900: Part E7 | >5kg cm (N) |
| | Chip | Nut Fall Test (NEN 5335) | Pass <10mm ² peeled off surface layer <5mm ² peeled off ground layer |
| | Scratch | BS3900: Part E2 | 2kg: Pass |
| Corrosion and Durability | Salt Fog | ISO 7253 (500 hours) | Pass – Corrosion creep <2mm from scratch |
| | Mortar Resistance | ASTM C207 | Easy to remove. No staining |
| | Boiling Water | 2 hours boiling water | No defects or detachments |
| | Humidity | BS3900: Part F2 | Pass. 1000 hours without any effect. |
| | Artificial Weathering | QUV-B ISO 11507 | After 500 hours. Residual Gloss >80% |

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| Exterior Durability | After 12 months, minimal loss of gloss or colour change. No film breakdown or reduction in protective properties |
| Chemical Resistance | Resistant to most acids, alkalis and oils. |
| Graffiti Removal | <p>The anti-graffiti coating, having superior solvent resistance, may be cleaned with a variety of solvents, the choice of which will depend on the type of graffiti encountered. For example:</p> <ul style="list-style-type: none">• Mild Detergent - Light soiling, shoe polish, lipstick, water-based marker• Alcohol, Acetone, Trichloroethylene – Heavy soiling, permanent marker pens• Acetone, Trichloroethylene – Aerosol <p>The solvent should be used sparingly and in conjunction with the manufacturer's instructions. After cleaning, do not allow solvent to remain in contact with the coating for a prolonged period. It is recommended that after solvent-based graffiti removal, the surface should be washed with a mild detergent solution (e.g. 5% Teepol) to remove solvent residues.</p> |
| Colour Availability | All colours from BS 5252, BS 4800, BS 381C, RAL Classic, RAL Design, Pantone and NCS ranges. Any submitted colour standard can be manufactured to customer's requirements |
| Restriction of Hazardous Substances (RoHS/RoHS2) | This product range conforms to the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS and RoHS2) Directive. It does not contain any compounds of lead, mercury, cadmium or hexavalent chromium; nor does it contain polybrominated biphenyls (PBBs) or polybrominated diphenyl ether (PBDE). |
| Health & Safety | This product is intended for use only by professional applicators in industrial environments. Consult the relevant health and safety data sheet indicated in the box label before use. Anti-Graffiti powders release a small (1.5% w/w) amount of ϵ -caprolactam on stoving. Care should be taken to ensure adequate ventilation that working concentrations ϵ -caprolactam of are kept below 25mg/m ³ . |



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