Interpon 200 Cr

UW0094 Chrome Silver

Chrome-silver-effect polyurethane powder coatings



Product description

Interpon 200 Cr is a series of polyurethane-based powder coatings designed for the exterior environment offering excellent corrosion resistance and flexibility properties. Exceptionally smooth flow and high gloss make **Interpon 200 Cr** powders ideal for applications where a high level of aesthetic finish is required.

Please note that **Interpon 200 Cr** are not designed for architectural applications. To prevent oxidation of the basecoat, a clear coat must always be applied.

Powder properties

	Typical value
Chemical Type	Polyurethane
Appearance	Smooth Gloss
Color	Chrome Silver
Density	1.2 - 1.9 g/cm³
Finish Effect	Bonded
Recommended film thickness	70 - 90μm
Shelf life	24 months
Storage Conditions	Under dry, cool (≤ 30°C) conditions (open boxes must be resealed)
Curing schedule	15-20 min at 190°C 10-15 min at 200°C

Pre-treatment

Iron phosphate and particularly Zinc phosphating of ferrous metals improves corrosion resistance. Aluminium substrates may require a chromate conversion coating.

Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable pre-anodising to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.

Application

Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings in order to avoid "marble effect" and changes in aspect after recycling.

Products with different codes should not be mixed even if same colour and gloss.

Different substrates (aluminium, steel, galvanized steel...), use of primer, and big changes in film thickness may give a different aspect.

It is recommended that for consistent application and appearance product be fluidized during application.

Powders can be applied by manual or automatic electrostatic spray equipment.

Application Method	Electrostatic
Recycling	Unused powder can be reclaimed using suitable equipment and recycled through the coating system, but a minimum of 70% virgin powder should be used.

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Test conditions

The results are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only

Testing has been determined under laboratory conditions using the following application properties and is for guidance only.

The test results are shown below based on a single layer application of Interpon 200 Cr without application of a clearcoat.

Pre-treatment	Zinc Phosphate
Substrate	Polished steel
Curing schedule	10 min at 200°C (object temperature)
Film Thickness	70 - 90μm

Mechanical tests

	Typical value	Method/standard
Adhesion	Class 0	ISO 2409 (2 mm Crosshatch)
Erichsen cupping	Pass 5 mm	ISO 1520
Flexibility	Pass 5 mm	ISO 1519
Hardness	Pass - no penetration to substrate	ISO 1518-1 (2000g)
Impact resistance	≥30 kg.cm	ISO 6272-2 (d)

Chemical and durability tests

Whilst maintaining the general protective and anti-corrosive properties of powder coatings, aluminum and copper/bronze metallic finishes, when submitted to the listed tests, may rapidly show a loss of metallic aspect. The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.

The chrome basecoat should be protected by a powder or liquid clearcoat before chemical performance tests. The test results are shown below based on a Interpon 200 Cr and clearcoat.

	Typical value	Method/standard
Chemical Resistance	Excellent resistance to acid, alkalis, oils and chemicals at room temperatures - as dual system with clearcoat.	
Pass, no corrosion creep more than 3 mm from scribe, ISO 9227 500 h		

Environmental and durability tests

	Typical value	Method/standard
Humidity	Pass - no blistering or loss of gloss, 1000 h	ISO 6270-2 CH (Constant humidity)
Exterior durability	Suitable for outdoor exposure as dual system with clearcoat.	

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Repair

Surface preparation Sanding + Air cleaning

Any damage of the coating system must be repaired as soon as possible.

Application For repairs a PU (2K or 1K) liquid paint is recommended.

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Additional Information

Interpon polyurethane powders are available in a wide range of colours and gloss levels to suit different applications. Some polyurethane powders release a small amount (1.5%) of e- caprolactam on stoving. Care should be taken to ensure that working concentrations of caprolactam are kept below 25mg/m^3 . Interpon 200 powders are available in bright aluminium finishes which are susceptible to scratching and finger marking. Protection by use of a clear polyester top coat is recommended when the coated article is to be subjected to physical damage or environmental damage. The top coat should ideally be applied within 2 hours of the metallic coating and gloves should be worn when handling the metallic coated articles. For further details on the use of metallic powder coatings please contact AkzoNobel.

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Flat jet spray nozzles
Voltage: around 50-70 kV
Current 80mA
Main Air Pressure 0.7 Bar
Slow first passes
A soft powder cloud should be used
Distance gun-part: 20 to 25 cm
Dilution Air Pressure 0.7 Bar

To ensure powder homogeneity the powder should only be fed from a fluid bed feed hopper. Direct feed from the powder box is not recommended.

To maintain the bright metallic appearance the powder should not be recycled.

Ensure the coating is fully cured before application of the clear topcoat. Failure to fully cure the basecoat can result in disruption of the clearcoat surface at the coating-coating interface after application and curing of the clear coat. This will lead to a reduction in the gloss of the final coating and a reduced metallic effect. This can also lead to discoloration of the clear coat.

Special effects guide

Special effect powders are products requiring some special procedures and techniques in comparison with solid shades, particularly in application. To ensure that end user is satisfied they need special attention, both in the powder coatings production factory and on the premises where they are being applied.

Metallic finished are by nature more sensitive to variations in appearance than solid shades. When the product is to be applied on a mass production basis, manufactures should put special procedures in place to ensure the best possible repeatability.

When it comes to application, it is advisable to comply with some basic rules like:

- *Produce presentation ("visual reference") panels before executing the whole order
- *Submit a coated panel to the customer for approval
- *Supply a project wherever possible in one single campaign all with the same batch of powder
- *Discharge small cartons of powder into hoppers to make the powder more homogeneous
- *Avoiding moving spray guns in a figure of eight motions when applying manually

Experience dictates that with many special effect powder finishes they may be a strong dependence on the application equipment. A basic rule to try and get accepted by all interested parties on a contract is that more color variation is likely to occur than for traditional solid shade finishes.

Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.

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Disclaimer

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