

Scheda tecnica

## IGP-DURA®*cryl* 4009A-A1

High gloss powder coating with excellent anti-graffiti properties and very high weather resistance.



### Proprietà

- lucido
- superficie liscia
- Tinte unite
- Super durable industrial quality
- Chemical resistant
- Antigrffiti



### Proprietà delle polveri

Granulometria:	< 100 µm
Corpi solidi:	> 99 %
Densità:	1.3 kg/l-1.6 kg/l
Stoccaggio:	min. 18 months a ≤ 25 °C in an unopened original container
Color tones:	RAL and NCS-S shades, individual colors on request



### Applicazione

#### Pretrattamento

For this product, a substrate-specific pretreatment and corresponding primer application is highly recommended. The single-layer application is carried out at the user's own responsibility.

Alluminio

- Chromating according to DIN EN 12487
- Chrome-free pretreatment according to GSB International and QUALICOAT specifications
- Pre-anodization

Acciaio

- Zinc phosphating

Acciaio zincato

- Zinc phosphating
- Chrome (III) passivation
- Chromating according to DIN EN 12487

The suitability of the pretreatment method used is generally to be tested by the coater in advance with appropriate test methods. The minimum requirement for aluminium substrates / galvanised steel components is to carry out a boiling water test with a subsequent cross-cut adhesion and tape test. We refer to the guidelines of the GSB International, Qualicoat and Qualisteelcoat certifications. For further information: see also our special leaflet on pre-treatment (IGP-TI 100).

### Impianti di verniciatura

All conventional electrostatic systems with corona charging.

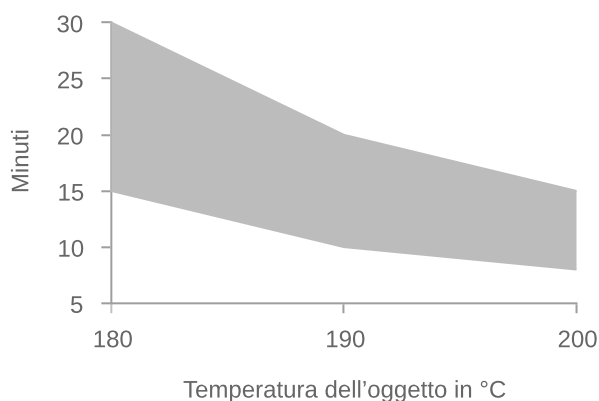
For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

### Spessore del film consigliato

60 µm - 80 µm

A homogeneous coating result with textured coatings or article- and color specific differences in hiding power may require higher coating thicknesses. The corresponding processing guidelines must be observed. For a pre-calculation of the required powder coating quantity, the necessary coating thickness must be determined for each article.

### Condizioni di cottura



<b>T<sub>oggetto</sub></b>	<b>t<sub>min</sub></b>	<b>t<sub>max</sub></b>
180 °C	15 minutes	30 minutes
<b>190 °C</b>	<b>10 minutes</b>	<b>20 minutes</b>
200 °C	8 minutes	15 minutes

Per accertare le condizioni di cottura migliori si consiglia, in ogni caso, di effettuare prove pratiche con il rispettivo oggetto e forno di polimerizzazione.

### Recupero

Small portions of recycled powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum.

### Compatibilità

Contamination with other powder coatings may result in a drop of the gloss level, cratering, loss of mechanical properties, etc. Devices and coating systems must be thoroughly cleaned before and after using the powder.



## Caratteristiche del film

### Testato per

Substrati: Steel, 0.5mm  
Tested setting: Tested on IGP-KORROPRIMER 10  
Spessore: 60 µm - 80 µm  
Temperatura dell'oggetto: 190 °C, 10 min.

## Struttura superficiale

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Brillantezza	85-100 R'/60°	DIN EN ISO 2813 2015-02
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## Prove meccaniche

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Cross-cut adhesion test	Gt 0	DIN EN ISO 2409 2020-12
Mandrel bending test / Tapetest	≤ 8 mm	DIN EN ISO 1519 2011
Impact test / Tape test	≥ 10 inchp.	ASTM D 2794 1993
Erichsen cupping / Tape Test	≥ 2 mm	DIN EN ISO 1520 2007-11
Buchholz hardness	≥ 100	DIN EN ISO 2815 2003-10

## Test di resistenza agli agenti atmosferici

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QUV-SE-B-313, 600h	> 50 % Brillantezza residua	DIN EN ISO 16474-3 2014-03
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## Verifiche della resistenza a corrosione

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Condensation water test, 500-1000h*	No infiltration, no blisters. *depending on pretreatment	DIN EN ISO 6270-2 2018-04
Natural salt spray test, 500-1000h*	No infiltration, no blisters. *depending on pretreatment.	DIN EN ISO 9227 2017-07

## Prove chimiche

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Organic solvents	Outstanding resistance to organic solvents
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## Altre informazioni

### Imballaggio

20 kg cardboard box with inserted antistatic PE liner  
500 kg cardboard container with 25 antistatic PE-liners each 20kg

### Sovraverniciabilità

For overcoating anti-graffiti powder coatings, sanding and preliminary tests are mandatory.

### Protezione delle superfici verniciate

Coated parts should be packed after cooling with suitable materials without plasticizers. They should be stored protected from the weather to avoid the formation of condensation and thus water spots on the coating.

### Pulizia

The coated parts must be cleaned according to the directives RAL-GZ 632 or SZFF 61.01.

### **Rimozione di graffiti**

The following procedure should be observed when removing graffiti:

- The contact time of the graffiti with the surface must be kept as brief as possible
- Preliminary tests to select a suitable graffiti remover
- Thorough rinsing of the cleaned areas with water
- The contact time of the graffiti remover with the surface must be kept as brief as possible

IGP recommendation:

- Elite 007 graffiti remover from Crous Chemicals GmbH
- Socostrip T4210P from Socomore
- Bonderite S-ST 1302 and Bonderite C-MC 400 from Henkel AG
- or a different non-abrasive cleaner

### **Rimozione e smaltimento della pittura**

After use, coated goods should be supplied to the normal recycling process. The disposal methods for sludges or residual powders must be observed in accordance with the local official provisions whilst taking Waste Code "080201 Coating Powder Wastes" in accordance with the European Waste Catalogue into consideration.

Le presenti informazioni di natura tecnica relative all'utilizzo sono fornite sulla base delle conoscenze attuali. Tuttavia devono essere considerate come indicazioni non vincolanti che non esonerano dall'effettuazione di controlli autonomi. Utilizzo, destinazione e applicazione di prodotti hanno luogo senza possibilità di controllo da parte nostra e, pertanto, soggiacciono esclusivamente alla vostra responsabilità.

Prima dell'applicazione consultare la scheda di sicurezza. Scheda di sicurezza specifica per l'articolo e misure più approfondite sulla gestione del rischio alla pagina: [igp-powder.com](http://igp-powder.com)