



Scheda tecnica

IGP-HWFthermofer 531MB-A2

Matt, finely structured, highly weather-resistant powder coating that is suitable for creating stunning decorative effects using a thermal transfer printing process, certified by Qualideco.



Proprietà

- Opaco
- Raggrinzato
- Trasparente
- Standard facade quality,
1 year Florida > 50% residual gloss



Omologazioni

- Qualicoat Nr. DP-0959, class 2
- Qualideco PS-008



Proprietà delle polveri

Granulometria:	< 100 µm
Corpi solidi:	> 99 %
Densità:	1.2 kg/l-1.6 kg/l
Stoccaggio:	min. 12 months a ≤ 25 °C in an unopened original container



Applicazione

Pretrattamento

The substrate must be free from oil, grease and oxidation products. The pretreatment depends on the type of substrate and the corrosion protection to be achieved. We recommend the following pretreatments:

Alluminio

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

Acciaio

- Zinc phosphating

Acciaio zincato

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

For improved corrosion protection for applications on steel / galvanised steel, the use of corrosion protection primer IGP-KORROPRIMER 10 or IGP-KORROPRIMER 60 is recommended.

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.

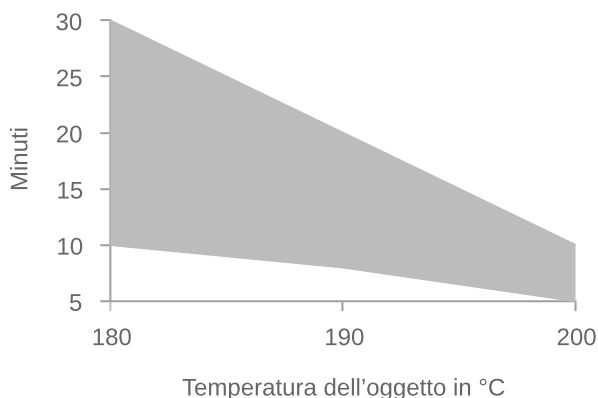
Spessore del film consigliato

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



T oggetto	t min	t max
180 °C	10 minutes	30 minutes
190 °C	8 minutes	20 minutes
200 °C	5 minutes	10 minutes

In ogni caso, si raccomanda di effettuare prove pratiche con il rispettivo oggetto e per determinare l'ottimale per determinare il migliore possibile

Application

Grundbeschichtung mit IGP-HWFthermofer 531M, Schichtdicke etwa 60-80µm.

Nach Einbrennen und Abkühlen des beschichteten Substrates erfolgt der „Transferdruck“, d. h. das Übertragen eines auf Papier oder Folie vorgegebenen Motivs, z. B. Holzmaserungen, mit Hilfe von Wärme auf, bzw. in den Untergrund. Die entsprechenden Druckpapiere gehören zum Lieferumfang des Maschinenlieferanten.

Dekosorten:

1. MIROGLIO - DECOTRANS®ALU
 2. SUBLIK - HEAT TRANSFER FILM SUBLIK
 3. DEOCRAL SYSTEM - HEAT TRANSFER FILM DECORAL SYSTEM
- gemäss Qualideco Lizenz PS-008

Recupero

Small portions of recycled powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum. Processing instruction VR214 must be observed.



Caratteristiche del film

Testato per

Substrati:	Aluminum (AlMg1), 0.8 mm chrom-free
Tinte testate:	Yellow - according to sample
Spessore:	60 µm - 80 µm
Temperatura dell'oggetto:	180 °C, 10 min.

Struttura superficiale

Brillantezza	4-18 R°/60°	DIN EN ISO 2813 2015-02
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Prove meccaniche

taglio incrociato	Gt 0	DIN EN ISO 2409 2020-12
Mandrel bending test / Tape test	≤ 5 mm	DIN EN ISO 1519 2011
Impact test / Tape test	≥ 20 inchp.	ASTM D 2794 1993
Erichsen cupping / Tape test	≥ 5 mm	DIN EN ISO 1520 2007-11
Buchholz hardness	≥ 80	DIN EN ISO 2815 2003-10 (Anhang A)

Test di resistenza agli agenti atmosferici

3 years Florida, 5° south	> 50 % Brillantezza residua	DIN EN ISO 2810 2021-01
Xenon-arc lamps, 1000h, 90%	> 90 % Brillantezza residua	DIN EN ISO 16474-2 2014-03

Verifiche della resistenza a corrosione

Acetic acid salt spray test, 1000h	No infiltration, no blisters	DIN EN ISO 9227 2017-07
Condensation water test, 1000h	No infiltration, no blisters	DIN EN ISO 6270-2 2018-04

Prove chimiche

Mortar resistance	Easily removable after 24h with no residues.	ASTM D 3260 2001
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Altre informazioni

Sovraverniciabilità

Preliminary tests are mandatory for overcoating painted surfaces.

Stampaggio e incollaggio

Preliminary tests are mandatory for printing and glueing of painted surfaces.

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 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**