
IGP's highly reactive low-temperature powder coating system introduces a new dimension to economical and sustainable powder coating.

Economical
and sustainable
powder coating.

Low-temperature powder coatings offer attractive advantages.

The IGP-DURA^{one} powder coating system optimizes the coating process by increasing efficiency and capacity, reducing costs, and saving time. Lower temperatures reduce energy costs; wide curing windows ensure process reliability. The series includes various surface characteristics and a wide range of standard shades for modern coating requirements.

Your benefits at a glance

- + Increase your process speed
- + Significantly lower your curing temperatures
- + Safeguard and enhance the quality of your coatings
- + Certified quality standards
- + Corrosion protection and many different colors
- + Greater sustainability and efficiency
- + Bespoke service
- + Workshops and training courses

Increase your process speed

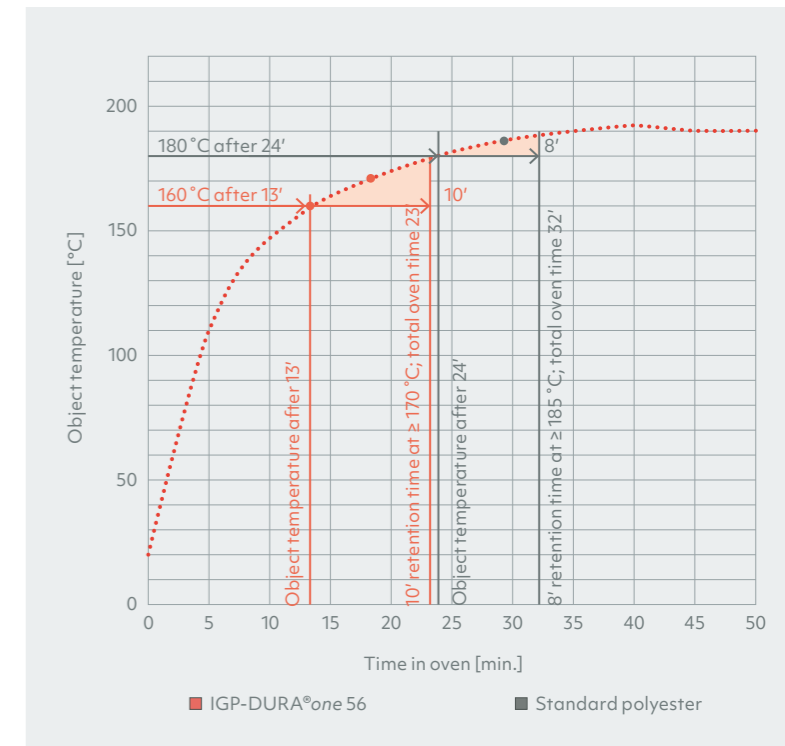
More efficient processes from start to finish.

Consistent use of highly reactive powder coatings allows an optimized utilization of process resources.

Increase efficiency in your coating process

Thanks to the highly reactive cross-linking of IGP-DURA^{one}, processes can be accelerated at any temperature setting. This enables you to optimize your oven throughput times. Ultimately, coating more parts in the same time period means increased coating efficiency. This not only reduces the required manpower, but also helps to cut carbon emissions.

The example shows a time saving of **30%** from the use of IGP-DURA^{one}.



Theoretical example using IGP-DURA^{one} 56

Initial situation: total oven length 70 m.
Oven temperature set to 190 °C. Steel object, 4 mm thick.

Oven time for standard polyester

- Cross-linking from 10' at 180 °C, in this case achieved in 8' at approx. 185 °C
- The minimum object temperature of 180 °C is reached after 24'
- The total oven time including cross-linking is 32'

IGP-DURA^{one} 56

- Cross-linking from 15' at 160 °C, in this case achieved in 10' at approx. 170 °C
- The object temperature of 160 °C is reached after 13'
- The total oven time including cross-linking is 23'*

* Due to the high oven temperature of 190 °C, the surface continues to heat up during the cross-linking phase. As a result, cross-linking of the IGP-DURA^{one} 56 film is complete after only 10'.



Increase your processing speed

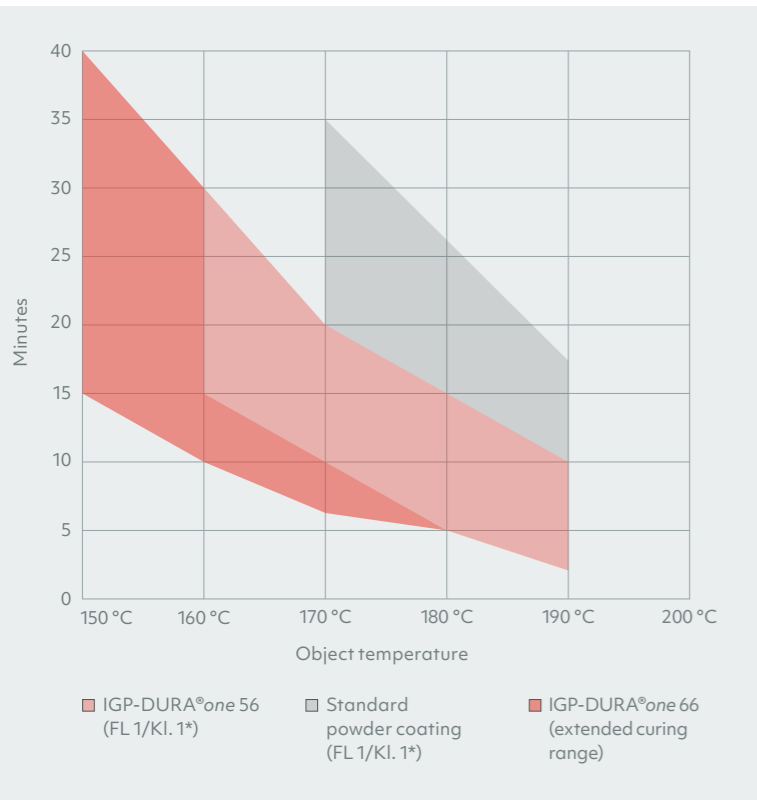
Utilize oven times better

- Cover a larger total area in the same time
- Generate economic advantages

Reduce oven time

- Save time and personnel costs
- Achieve higher profits

Achieve more at lower temperatures.



Curing window – IGP-DURA^{one} versus standard powder coatings

Thanks to its excellent over-curing stability, IGP-DURA^{one} also offers a speed-curing option of 3' – 10' at 190 °C.

* GSB Florida 1 / Qualicoat Class 1

Highly reactive powder coatings allow an immediate reduction in temperatures while ensuring reliable cross-linking of the paint film.

Higher energy efficiency – IGP-DURA^{one} 56 and 66

IGP-DURA^{one} 56 is the most energy-efficient and highly reactive quality-certified powder coating series on the market. It impresses not only thanks to low minimum curing temperatures (15' / 160 °C), but also due to its high application efficiency and excellent over-curing and gloss stability.

IGP-DURA^{one} 66 crosslinks from 15' at a minimum curing temperature of 150 °C and is ideal for industrial applications.

Given current developments in electricity and gas prices, IGP-DURA^{one} offers attractive opportunities to significantly reduce operating costs. This has a strong and sustainable impact on a company's carbon footprint.



Lower curing temperatures

Reduce oven temperature

- Save energy costs
- Reduce your carbon footprint

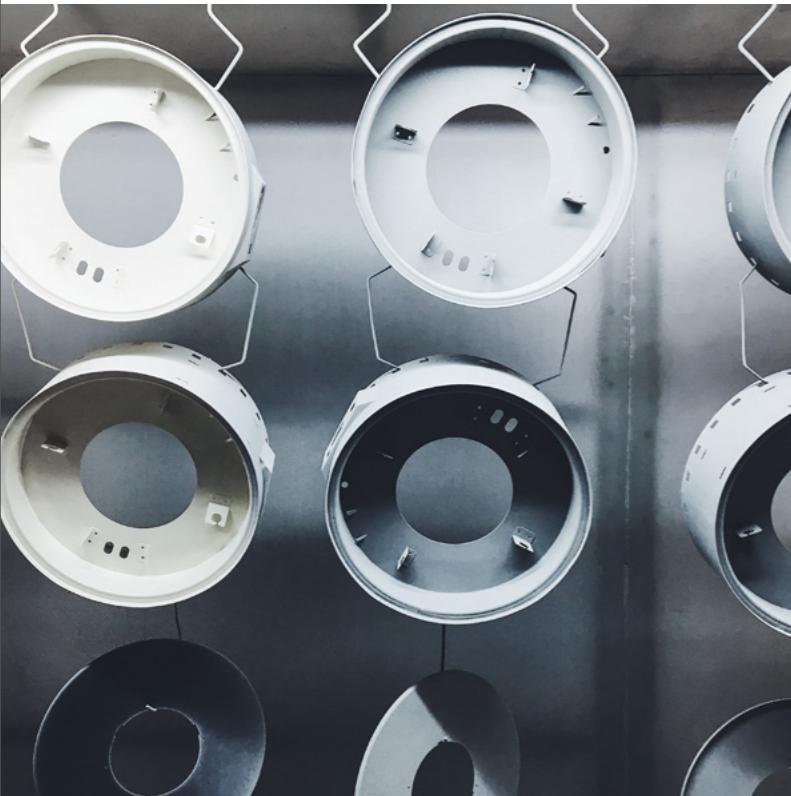
Cure heavy parts rapidly

- Use oven times cost-effectively
- Ensure cross-linking



By reducing the curing temperature by 20 °C, coaters can save up to **14 % of CO₂** compared to conventional powder coating systems.

Excellent over-curing stability, even with wide variations in the material thickness.



A wide curing window offers high shade and gloss stability with different application parameters and materials.

Simplify your production planning

IGP-DURA[®]one features excellent over-curing stability. Even when materials of different thicknesses pass through the furnace, a stable shade is guaranteed within a beneficial gloss corridor. This optimizes reliability in the coating process while also reducing production complexity. These properties also greatly simplify production planning – an economic advantage for coating companies with several powder coating suppliers.



Achieve excellent coating quality

Optimize your conveying speed

- Account for inert powder coatings in the process
- Replace your current powder coatings

Different heat-up curves

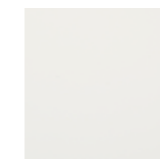
- Homogeneous results despite different oven graphs
- Reduced planning complexity

The over-curing stability of IGP-DURA[®]one is especially advantageous for workpieces with wide variations in the material thickness.

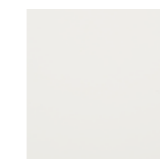
Practical example

Gloss and color stability with different curing combinations using product group 5607 silk gloss.

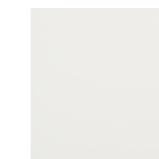
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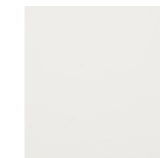
15' at 160°C
77 GU (60°)



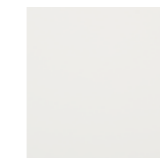
50' at 170°C
72 GU (60°)



40' at 180°C
74 GU (60°)

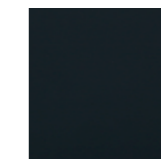


30' at 190°C
76 GU (60°)



20' at 200°C
72 GU (60°)

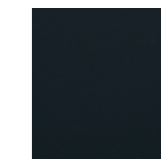
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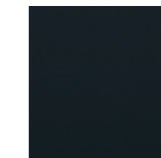
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20' at 200°C
72 GU (60°)

GU = Gloss Unit, 60° = angle of measurement



Reliably achieve
top quality at
lower curing
temperatures.

Certified quality standards

Standards for architecture and industry.

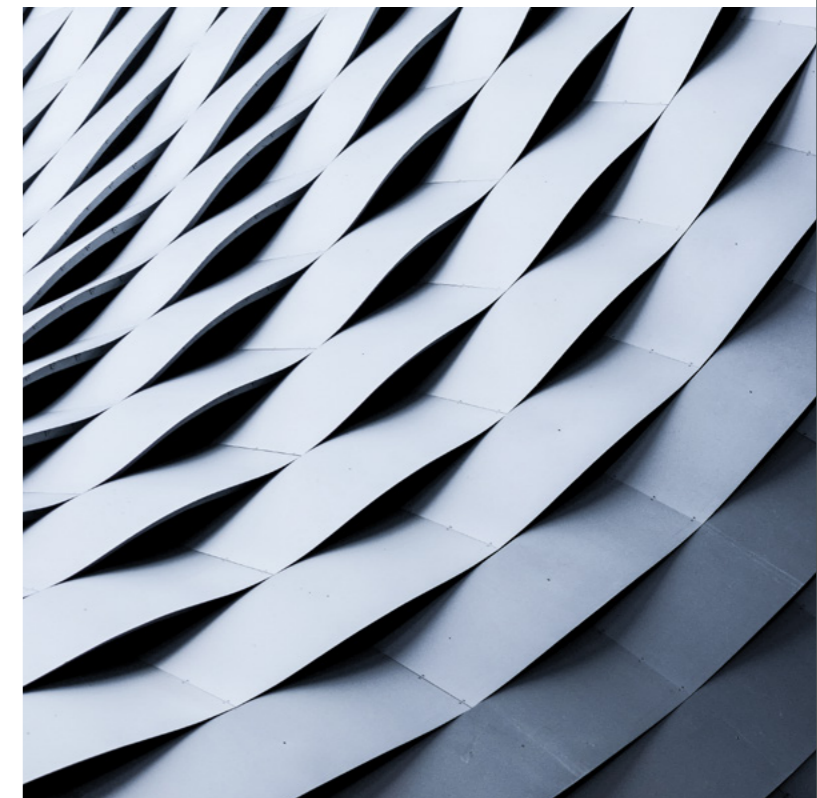
IGP-DURA[®]one allows surface finishing with high-quality coatings that meet industry standards and promote economic sustainability.

Excellent gloss stability

IGP-DURA[®]one 56 stands out for exceptional color and gloss stability. These properties, also in relation to the curing temperatures, were examined and verified by the renowned IFO Institute. This affirmation underscores the reliability and quality of IGP-DURA[®]one 56.

Surfaces coated with IGP-DURA[®]one 56 offer improved protection against environmental influences, UV radiation and mechanical stresses, preserving their gloss and aesthetics over a long period of time.

IGP-DURA[®]one 66 expands the possible surface options to include high gloss, as well as coarse and fine structure characteristics. Both IGP-DURA[®]one 56 and 66 cover all industrial needs with their surface structures.



Certification

IGP-DURA[®]one 56 powder coatings are certified in accordance with Qualicoat Class 1.



IGP-DURA[®]one 56 powder coatings comply with the GSB Florida 1 standard.



Note: Additional quality, fire or railway certifications are available on request.

Design and reliability – tailored to your requirements.



This high-performance dual solution not only offers outstanding corrosion protection, but also a wide range of colors for finishing architectural and industrial surfaces.

Wide variety of colors for surfaces

The IGP-DURA^{one} 56 product range offers a broad palette of RAL shades and other color systems with matte, silk gloss, and fine structure surface characteristics. The powder coating qualities are certified in accordance with GSB (Florida 1) and Qualicoat (Class 1). IGP-DURA^{one} 56 is also available as an effect powder coating based on the patented IGP-Effectives[®] technology.

The IGP-DURA^{one} 66 product range rounds off the surface characteristics with glossy surfaces as well as fine and coarse structures. Thanks to a large selection of products in stock for both product ranges, we can also guarantee short delivery times.

Wide variety of colors and corrosion protection for architectural and industrial surfaces.

For extended corrosion protection under extremely challenging climatic conditions, we recommend combining IGP-DURA^{one} with the low-temperature anticorrosive primer IGP-KORROPRIMER.

The causes of corrosion

According to the World Corrosion Organization, corrosion costs 3.5 % of gross national income annually in industrialized countries. DIN 50900 defines corrosion as “the destruction of metals through chemical or electro-chemical reactions with their environment”. This environment includes natural factors such as the atmosphere, frequency of precipitation and proximity to rivers or seas.

Combat corrosion

The low-temperature anticorrosive epoxy primer IGP-KORROPRIMER 18 can be combined with both IGP-DURA^{one} 56 and IGP-DURA^{one} 66 and offers excellent corrosion protection for steel and aluminum. In combination with IGP-DURA^{one} as a top coat, it significantly enhances the coating's resistance to corrosive attacks and extends the protection time. This approach makes it possible to create cost-effective, eco-friendly surfaces.

56 IGP-DURA^{one} 56

Product description

Wide variety of low-temperature powder coatings for application on metallic components in interior and exterior areas; with curing from 160 °C.

Surface characteristics

5603 Smooth finish, matte
5607 Smooth finish, silk gloss
561M Fine structure, matte

66 IGP-DURA^{one} 66

Product description

Low-temperature powder coatings with curing temperatures from 150 °C for a multitude of interior and exterior applications.

Areas of application

6609 Smooth finish, gloss
661S Fine structure, silk gloss
661T Fine structure, deep matte
662S Coarse structure, silk gloss

18 IGP-KORROPRIMER 18

Product description

Low-temperature primer (curing conditions from 140 °C) for use on thick-walled substrates. Reduces energy costs and optimizes processing times.

Areas of application

1808 Smooth finish for steel and aluminum

A new dimension in powder coating.



IGP-DURA[®]one redefines the future of powder coating technology. This highly reactive powder coating system not only enables first-class surface coatings, but also sets new standards in terms of cost-effectiveness and sustainability.

At a time when sustainability is becoming a necessity, IGP-DURA[®]one sets a clear benchmark. It is not just a powder coating system; it is a response to the requirements of a responsible industry.

As a harmonious symbiosis of cost-effectiveness and sustainability, it paves the way for future-proof innovations in powder coating technology. When creating the formulas for IGP-DURA[®]one, we focused on minimizing the use of PFAS additives (PTFE) wherever possible. Furthermore, the powder coatings in the IGP-DURA[®]one low-temperature powder coating system contain no volatile organic compounds (VOC) or heavy metals.



Innovative formulas

When developing the environmentally friendly IGP-DURA[®]one series, we deliberately avoided using harmful PFAS additives (PTFE) to create smooth surfaces – yet this series still outperforms conventional polyester powder coatings in terms of its abrasion properties and scratch resistance.



Environmental Product Declaration (EPD)

Third-party-validated environmental product declarations (EPD) provide the basis for ecological building assessment with their transparent data on the environmental impact of a product. The EPD for IGP-DURA[®]one 56 is evaluated according to ISO 14025 and EN 15804 and is available for download on both the IGP homepage and the online platform of the Institut Bauen und Umwelt e. V. (IBU).



The economical and sustainable powder coating system from IGP.



Tailored Customer Support. Fast and Uncomplicated.



Together, we'll make your projects a success – this is the IGP promise. Our specialist advisors are experts in powder coatings and the coating process, providing support, know-how, and helpful recommendations in all aspects of powder coating.

Application-related consulting

IGP's highly experienced technical advisors are available to support our customers.

Colors and color processing

Shades are individually adapted and developed for each project.

Testing and investigations

IGP's services range from corrosion and weathering tests to mechanical tests and competitive comparisons.

Troubleshooting

IGP's technical advisors determine the causes of problems in the powder coating process and identify solutions.

Defect evaluation, support, and expertise

The IGP service team investigates the root causes of errors and helps to eliminate them.



DIN certified

IGP's DIN-certified coating inspectors provide advice and training for IGP's customers, including on-site support. They are authorized to carry out corrosion protection measures, repair corrosion damage, and certify the results.







Enhanced performance through further training.

Well-trained employees are a strategic success factor for every company. For this reason, IGP offers education and training for our customers. IGP certification programs are available in the area of process reliability.

Customized IGP training courses

Our comprehensive training program is designed to ensure competent, efficient use of high-quality powder coatings.

The subject matter ranges from the basics to specific specialist content and is therefore suitable for professionals at all experience levels. These intensive training courses lay a crucial foundation in terms of process reliability, correct handling of the various IGP products, and meeting our customers' challenging quality requirements.

-  Low Cure System
-  Anticorrosive primer system
-  Weathering categories of powder coatings
-  Powder coatings with effect surfaces



Overview of IGP certifications

The IGP certification program for coating companies is designed to maximize process reliability while ensuring that all professionals who process powder coatings share a uniform understanding of the respective processes. These certifications guarantee high quality and offer IGP-certified companies attractive benefits.



Keep cool,
take one!
IGP-DURA[®]one

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There is an answer
to every surface.
IGP FOR SURE.



**POWDER
COATINGS**