



POWDER
COATINGS

IGP-DURA[®]one 56

IGP's quality-certified and highly reactive low-temperature powder coating system introduces a new dimension to powder coating processes.

A photograph of a person in a red jacket and blue pants standing on a rocky shore next to a pool of water. The water reflects the surrounding massive, translucent blue ice walls of a cave. The scene is dramatic and emphasizes the scale and clarity of the ice.

Economical and
sustainable
powder coating.

swiss  quality

Low-temperature powder coatings offer attractive advantages.

The IGP-DURA[®]one 56 series 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

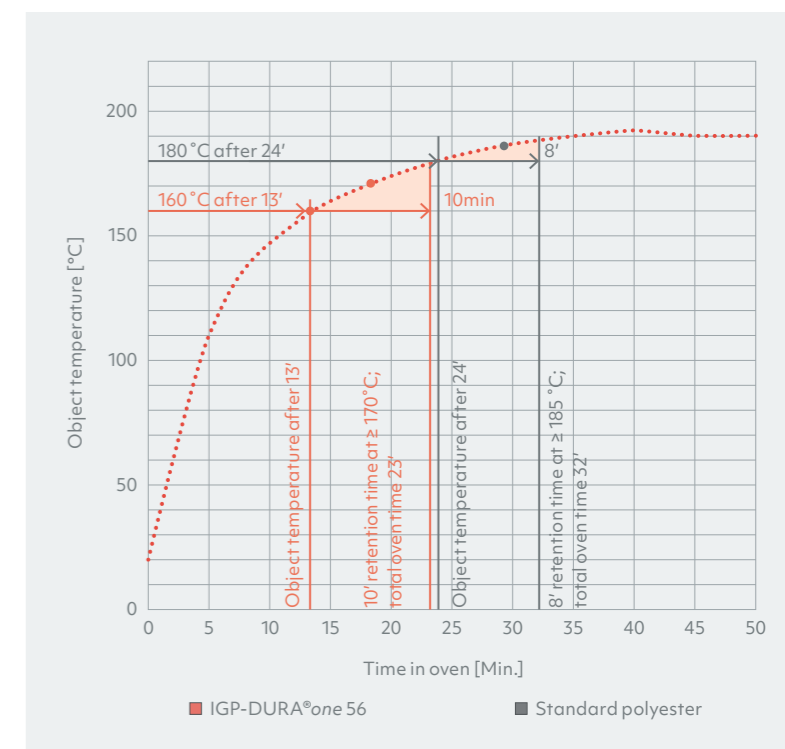
More efficient processes from start to finish.

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 56, processes can be accelerated at any temperature setting. So you can 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.

With IGP-DURA[®]one 56, time savings of approx. 30% can be achieved in this example.



Theoretical example

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 (average temperature)
- 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 (average temperature)
- 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

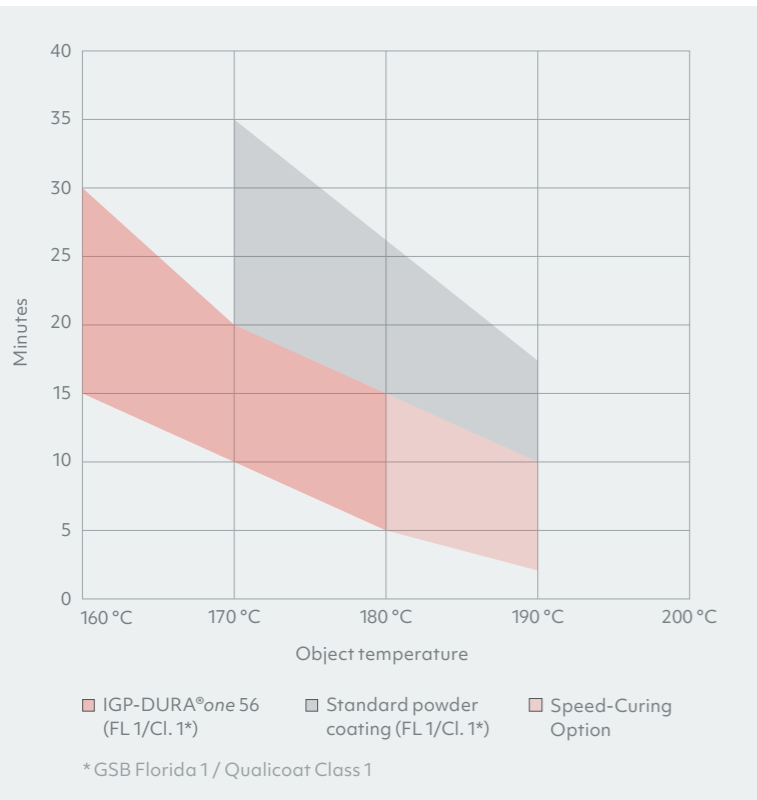
Utilize oven times better

- 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} 56 versus standard powder coatings

Thanks to its excellent over-curing stability, IGP-DURA^{one} 56 also offers a speed-curing option of 3–10' at 190 °C.



Lower curing temperatures

Reduce the oven temperature

- Save energy costs
- Reduce your carbon footprint

Cure heavy parts rapidly

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

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} 56 exhibits excellent over-curing stability. Even when materials of varying thickness pass through the oven, 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 suppliers.

Practical example

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



IGP-Dura^{one} 56

Article no: 5607A90100A70

	15' 160 °C 77 GU (60°)
	50' 170 °C 72 GU (60°)
	40' 180 °C 74 GU (60°)
	30' 190 °C 76 GU (60°)
	20' 200 °C 72 GU (60°)

IGP-Dura^{one} 56

Article no: 5607A70160A70

	15' 160 °C 77 GU (60°)
	50' 170 °C 72 GU (60°)
	40' 180 °C 74 GU (60°)
	30' 190 °C 76 GU (60°)
	20' 200 °C 72 GU (60°)

GU = Gloss Unit, 60° = angle of measurement

The over-curing stability of IGP-DURA^{one} 56 is especially advantageous for workpieces with wide variations in the material thickness.



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



Reliably achieve top quality at lower curing temperatures.

Certified quality standards

Standards for architecture and industry.

IGP-DURA[®]one 56 allows surface finishing with high-quality coatings that meet industry standards and promote economic sustainability.

Excellent gloss stability

IGP-DURA[®]one 56 boasts exceptional color and gloss stability. Regardless of environmental influences, UV radiation or mechanical stress, the coated surfaces retain their gloss level and aesthetic appeal over time.

The gloss and color stability in relation to the curing temperatures have also been tested and certified by the renowned IFO Institute. This affirmation underscores the reliability and quality of IGP-DURA[®]one 56.



Certification

IGP-DURA[®]one 56 powder coatings are certified in accordance with Qualicoat Class 1, meeting all standards issued by the certification body.

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



Design and reliability – tailored to your requirements.



For extended corrosion protection under extremely challenging climatic conditions, we recommend combining IGP-DURA[®]one 56 with the low-temperature anticorrosive primer IGP-KORROPRIMER. This high-performance dual solution not only offers outstanding corrosion protection, but also a wide range of colors for finishing architectural and industrial surfaces.

Combat corrosion

The low-temperature anticorrosive epoxy primer IGP-KORROPRIMER 18 offers outstanding corrosion protection on steel and aluminum. In combination with IGP-DURA[®]one 56 as a top coat, it significantly enhances the coating's resistance to corrosive attacks and the protection time. This approach makes it possible to create cost-effective, eco-friendly surfaces.

Wide variety of colors for surfaces

The IGP-DURA[®]one 56 product range also offers a broad palette of standard RAL shades and other color systems with matte, silk gloss, and fine structure surface characteristics. These powder coatings are certified in accordance with GSB (Florida 1) and Qualicoat (Class 1). Thanks to a large selection of products in stock, we can also guarantee short delivery times.

IGP-DURA[®]one 56 is now also available as an effect powder coating with IGP-Effectives[®].

18 IGP-KORROPRIMER

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 Steel and aluminum

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.

Oberflächenprägungen

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

A new dimension in powder coating.

IGP-DURA[®]one 56 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 56 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 formula for IGP-DURA[®]one 56, we focused on minimizing the use of PFAS additives (PTFE). Furthermore, the powder coatings in the IGP-DURA[®]one 56 low-temperature powder coating system contain no volatile organic compounds (VOC) or heavy metals.

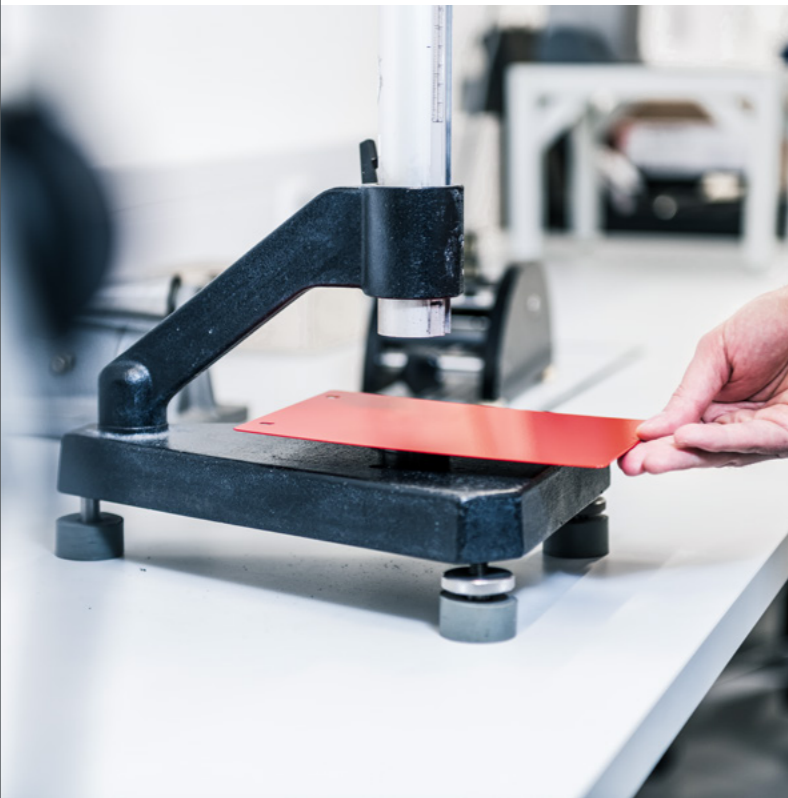


Innovative formulas

When developing the environmentally friendly IGP-DURA[®]one 56 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.

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 IGP's motto. 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 advice and technical consultation

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.



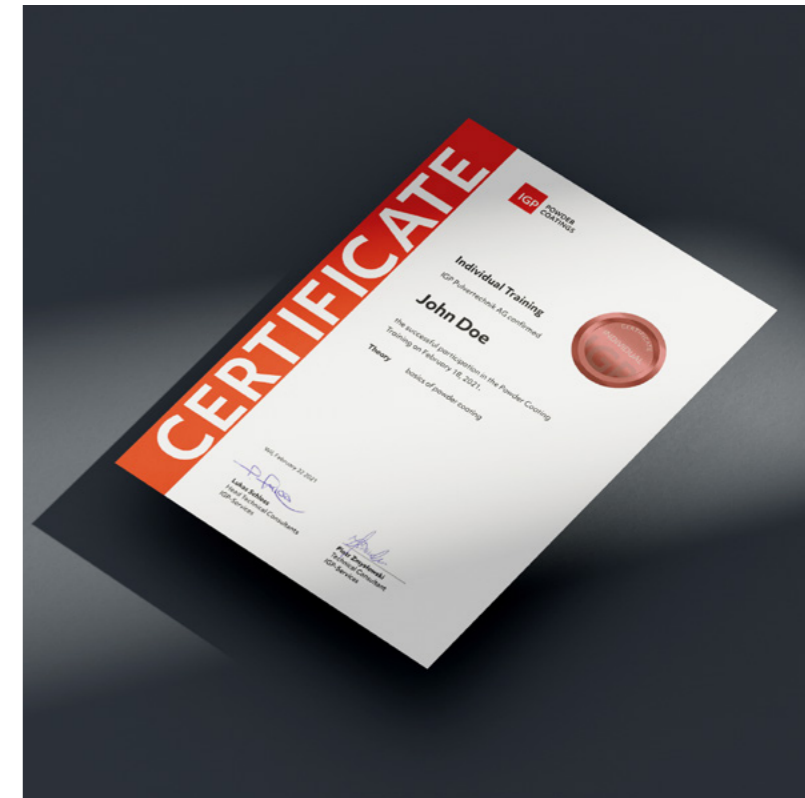
Enhanced performance through further training.








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 systems
-  Anticorrosive primer system
-  Weathering categories of powder coatings
-  Heat-sensitive surfaces
-  Powder coatings with effect surfaces
-  Living surfaces
-  IGP-DURA[®]sky

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

The information and illustrations in this brochure are valid at the time of printing. IGP reserves the right to make any necessary changes at any time and without prior notice. IGP innovations are protected by patents.

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The Right Answer
for Every Surface
IGP FOR SURE.



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