



IGP-DURA®*pox* 02

Indoor quality

IGP-DURA®*pox* 02 essentially consists of epoxy resins, the corresponding hardener, plus the respective light, heat and chemical resistant pigments.

Technical Data Sheet

Characteristics

- excellent flow
- very good resistance to solvents and chemicals

Applications

- decorative and functional Interior application
- Laboratory equipment and appliances
- Fittings for gas and water
- Machine elements
- Tools

Product range

Surface appearance

- **0207A**, smooth flowing, silk gloss
Gloss class, DIN EN ISO 2813:65-85R'/60°
- **0202A**, smooth flowing, matt
Gloss class, DIN EN ISO 2813:15-25R'/60°
- **0201A**, smooth-levelling, super-matt
Gloss class, DIN EN ISO 2813:00-15R'/60°

Also available are fine and coarse texture-powders.

Shades

Mainly RAL and NCS shades; also special domestic shades on request.

Powder specification

- Particle size: < 100µm
- Solids: > 99%
- Density according to shade: 1.3 - 1.6 kg/l
- Storage stability: min. 12 months
- Storage temperature: < 25° Celsius

Packaging

- Carton with antistatic PE bag liner, capacity 20 kg.
- Carton container with 25 antistatic PE liner bags, capacity 500 kg, net.
- Big Bag for approx. 500 kg, net.

Article-specific safety data sheet and further risk management measures at:

www.igp.ch



IGP Pulvertechnik AG
Ringstrasse 30
CH-9500 Wil
Telefon +41 (0)71 929 81 11
Telefax +41 (0)71 929 81 81
www.igp-powder.com
info@igp-powder.com
www.doldgroup.com

IGP-DURA[®]pox 02

Processing instructions

Pre-treatment

The substrate to be coated must be free of oxidation products, scale, oil, grease or mould-release residues.

- Aluminium, according to intended purpose, degreasing or chromatising according to DIN EN ISO 12487.
- Steel or galvanised sheet, according to intended purpose, degreasing or Fe-phosphating

For further information: see also our special leaflet on pre-treatment (TI 100).

Coating equipment

All commercially available electrostatic systems, both "Corona" and "Tribostatic" charge.

Relevant regulations: VDE requirements and the VDM data sheet 24371.

Recycling capacity

Recycled powder should be added in small portions (automatically if possible) to the fresh powder and then processed.

Important:

Overspray should be as low as possible.

Stoving conditions

Temperature and time combinations resulting in the optimal cross-linking of the coating.

Object-temperature	Retention time at 0209/07	Object temperature 0202/0201
--------------------	---------------------------	------------------------------

180°C	15 Min.	20 Min.
190°C	10 Min.	10 Min.

To obtain optimal stoving conditions you are recommended to carry out practical trials each time, adapted to the object in question and the stoving oven. Our technical service department will be glad to advise you.

Technological values

To obtain the following data IGP-DURA[®]pox 02 was coated as follows:

- Fe sheet, 0.8 mm
- Coating thickness 60-80 µm
- Object temperatures 190°C, 10 min.

Cross-cut adhesion test, DIN EN ISO 2409	Gt 0
Impact penetr., ASTM D2794	< 10 inchp.
Erichsen cupping, DIN EN ISO 1520	> 1 mm
Buchholz hardness, DIN EN ISO 2815	> 80

500-1000 h* Condensation water test, DIN EN ISO 6270-2:

no infiltration, no blisters
(*depending on preliminary treatment)

500-1000 h* Salt spray test, DIN EN ISO 9227:

no infiltration, no blisters
(*depending on preliminary treatment)

Long-Term heat resistance:
gradual yellowing after 120°C.

UV Test :
after 48 h, starting yellowing.

Resistance to chemicals:

IGP-DURA[®]pox 02 displayed good resistance to many diluted acids and alkalis, machine and soluble oils and many solvents.

Note

Our technical advice on application, given verbally, in writing and through trials is provided to the best of our knowledge but is to be regarded solely as non-binding information and does not release you from the need to carry out your own tests and trials.

Application, use and processing of the products take place outside our ability to supervise and are therefore exclusively your own responsibility.

