



IGP-DURA[®]mix 35

Indoor quality, silk gloss, gloss



Economical coating systems with aligned product attributes on a saturated polyester resin base and epoxy resins, plus the corresponding light and heat resistant pigments. They are used in the decorative indoor domain.

This reactive polyester-epoxid system allows stoving temperatures from 160°C.

Technical Data Sheet

Characteristics

- impact resistant surface with excellent flow
- good elasticity
- good general resistance values
- improved heat- and UV-resistance

Applications

- Factory equipment
- Office furniture
- Ceiling panels
- Household appliances
- Radiators
- Lighting systems
- Shelving components
- Toilet fixtures and fittings
- Water heaters

Product range

Surface appearance

- **3509A**, smooth flowing, glossy
- **3509E**, smooth flowing, gloss with pearl mica Effect
Gloss class, DIN EN ISO 2813: > 85 R'/60°
- **3507A**, smooth flowing, silk gloss
- **3507E**, smooth flowing, silk gloss with pearl mica Effect, Gloss class, DIN EN ISO 2813: 65-85 R'/60°

Shades

Shades by arrangement.

Powder specifications

- Particle size: < 100 µm
- Solids: ca. 99%
- Density according to shade: 1.3 - 1.8 kg/l
- Storage stability: 12 months
- Storage temperature: < 25° C

Packaging

- Carton with antistatic PE bag liner capacity 20 kg, net.

Safety data sheet: SD 010



IGP Pulvertechnik AG
Industrie Stelz, Kirchberg
CH-9500 Wil
Telefon +41 (0)71 929 81 11
Telefax +41 (0)71 929 81 81
www.igp.ch
info@igp.ch

www.doldgroup.com

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Processing instructions

The substrate 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-treatments (IGP-TI 100).

Coating equipment

All commercially available electrostatic systems, both „corona“ and Tribo charge“ type, with the exception of pearl mica effects which must be processed only with „corona“ charging.

Relevant regulations: VDE requirements and VDM data sheet 24371.

IGP processing instructions for „Pearl Mica Effects“: VR 201.

Recycling capacity

Small proportions of recycled powder should be added (automatically if possible) to the fresh powder and then processed.

Stoving conditions

Given are the temperature and time combinations which result in optimal cross-linking of the coating.

<i>Object temperature</i>	<i>Retention time at object temperature</i>	
	<i>minimal</i>	<i>maximal</i>
160°C	15 min.	25 min.
180°C	7 min.	15 min.
190°C	5 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®mix 35 was applied as follows:

- Steel sheet 0.8 mm
- Coating thickness 60-80 µm
- Object temperature 160°C, 15 min.

Cross-cut adhesion test, DIN EN ISO 2409:	Gt 0
Mandrel bending test, DIN EN ISO 1519:	< 5 mm
Impact penetr., ASTM D2794:	> 10 kg×cm
Erichsen cupping, DIN EN ISO 1520:	> 5 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, 1000h/80°C: No visible yellowing.

Resistance to chemicals

IGP-DURA®mix 35 displayed good resistance to many diluted acids and alkalis.

Loads from organic solvents are only possible conditionally and for the short term.

Resistance should be investigated for the case in question.

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.

