IGP-DURA®xal
4401, deep matte industrial design quality

IGP-DURA®xal 4401 is a new generation of deep matte industrial powders based on acrylic copolymer resins with corresponding hardener combinations and customer-optimized pigments. IGP-DURA®xal 4401 combines deep matte elegance with rugged surfaces that offer significant practical benefits.

Product description
IGP-DURA®xal 4401 is the product of many years of IGP development for the optimised presentation of distinguished surfaces for industrial and high quality design. The IGP-DURA®xal 4401 product system offers excellent deep matte coating characteristics and good chemical resistance for a wide variety of interior applications.

Properties
- Deep matte surface
- Excellent coating characteristics
- Good resistance to chemicals
- Rugged surface
- Good abrasion resistance

Area of application
- Objects expected to meet high design standards
- Furniture
- Lighting
- Household appliances
- Office equipment
- Office furniture

Product line
Surface aspects
- 4401A, smooth finish, deep matte
- 4401E, pearl mica effect, deep matte
  Gloss level, DIN EN ISO 2813: <12 R' / 60°

Shade:
By customer request.

Powder specifications
- Particle size: < 100 µm
- Solids: approx. 99%
- Density based on shade: 1.2 – 1.6 kg/l
- Storage stability: min. 12 months
- Storage temperature: < 25 °C

Package
- Carton with inserted antistatic PE sack – contents 20 kg
- Cardboard containers with 25 antistatic PE sacks, contents 500 kg

Technical data sheet
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Article-specific safety data sheet and further risk management measures at:
www.igp.ch
Workpiece heat-up rates can also affect gloss levels. Practical experiments designed for the particular object and stoving oven to determine the best possible stoving conditions are recommended in any event.

**Technological values**

To determine the following data IGP-DURA® xal 4401 was applied as follows:

- **Aluminium sheet (AlMg1 H14 or “Q-Panel AA 5005-H24”)** 0.8 mm, chromated
- Coating thickness 60 - 80 µm
- Object temperature 200 °C, 10 min.

**Gloss level, DIN EN ISO 2813** < 12 R°/60°

**Cross-cut adhesion test, DIN EN ISO 2409** > 0

**Mandrel bending test, DIN EN ISO 1519 / Tape test** < 5 mm

**Impact penetration, DIN EN ISO 6272 / Tape test** > 2.5 Nm

**Erichsen cupping, DIN EN ISO 1520 / Tape test** > 5 mm

**Buchholz hardness, DIN EN ISO 2815** > 80

**1000 h condensate test, DIN EN ISO 6270-2 CH:** no infiltration, no blisters.

**1000h salt spray test, DIN EN ISO 9227 AASS:** no infiltration, no blisters.

**Cleaning**

The coated parts must be cleaned in accordance with regulations RAL-GZ 632 or SZFF 61.01. For pearl mica effects, the technical information IGP-TI 106 must also be taken into account.

**Note**

This application-related advice is based on current knowledge but must be regarded as a non-binding recommendation and does not release you from conducting your own tests. The application, use and processing of the products are beyond our control and are therefore exclusively your responsibility.