

IGP-DURA[®]*xal* – TECHNOLOGICAL SPECIFICATIONS

Excerpt from tested product features

| General material characteristics / application range | |
|---|---|
| Line | Application |
| IGP-DURA [®] <i>xal</i> , 42 Material approval: Qualicoat N°, P-1164, class 2 | Powder coating for highly weather-resistant architectural applications with extremely high color and weather fastness. Suitable for components in architectural, infrastructure and nautical applications with high demands to appearance and UV resistance. |
| IGP-DURA [®] <i>xal</i> , 46 Weather-proof standard without architectural authorisation | Powder coating for weather-proof industrial applications. Homogenous light reflection and high covering power. Suitable for industry products with highly decorative requirements such as light housings, displays, sport equipments, electronic and communication devices. |
| Visual impression | Both ranges of products provide outstanding flow properties, allowing a perfect coating of edges without disturbing "picture frame effects", thus creating a smooth, deep-matt surface aspect. |
| Workability | Easy application, 60 kV–80 kV max.; good penetration depth, suitable for vertical systems (not suitable for Tribo application). |
| Recycling | A fluid reservoir is recommended with fresh powder addition, fresh powder ratio should not be less than 75 %. |
| Color change | Compatibility with other products, no contamination. |
| Cleaning | Easy to clean due to the high degree of cross-linking, low porosity and high density. Resistance against neutral cleaning agents. |

| Material data | | |
|---------------------------|--------------------------------|---|
| Properties | Norm, testing | Result |
| Gloss level | DIN EN ISO 2813 | < 12R' / 60 °C at object temperature ≥ 200 °C / 10 min. |
| Coating thickness | DIN EN ISO 2360 | Depending on covering power and shade, min. > 60 µm |
| Density | | 1.2–1.6 kg / l |
| Consumption | | 125 g / m ² ± 10 g at approx. 80 µm, depending on shade |
| Cross-cut adhesion test | DIN EN ISO 2409 | Gt 0 |
| Impact penetration | DIN EN ISO 6272-1 | > 2.5 Nm, tape test |
| Ericksen cupping | DIN EN ISO 1520 | > 5 mm, tape test |
| Buchholz hardness | DIN EN ISO 2815 | > 80 |
| Water condensate constant | DIN EN ISO 6270-2 CH | 1000 h, no infiltration, no blisters |
| ESS salt spray test | DIN EN ISO 9227 AASS | 1000 h, no infiltration, no blisters |
| Moisture resistance | GSB testing procedure 16 | L: < 4, valid for the IGP-DURA [®] <i>xal</i> 4201 product quality |
| Mortar resistance | DIN EN ISO 12206-1 (sect. 5.9) | 24 h, residue-free removal |

The technological properties were measured at a coating thickness of 60–85 µm on chromatised aluminium 0,8 mm aluminium sheet. Test sheets were stored for 10 min. at 200 °C object temperature. Result deviations due to different curing temperatures cannot be precluded.

For application on extruded, rolled or cast metals and/or non-ferrous metals, and pre-anodised aluminium alloys.

| Possible substrates and pre-treatments | |
|--|--|
| Substrates | Pre-treatment |
| Aluminium | With chrome content (DIN EN 12487) or chrome-free pre-treatment: a pre-sampling is recommended for chrome-free PT and with pre-anodisation as well as the observance of the certification regulations. |
| Steel | Suitable zinc phosphating alternatively: blasting at SA 2 ½, priming with IGP-KORROPRIMER 10 (anti-corrosive primer). |
| Galvanised steel | Chromatising in accordance with GSB regulations or appropriate zinc phosphating, alternatively: sweep and prime with IGP-KORROPRIMER 10. |
| Casting or other | Pre-treatment should be determined on a case-by-case basis. |

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42 46

IGP-DURA[®]*xal*

Deep-matt powder coating system for an elegant and stylish surface design for use in architectural and design applications



IGP-DURA[®]*xal* – DEEP-MATT SURFACE DESIGNS FOR TOP QUALITY ARCHITEC- TURAL AND DESIGN APPLICATIONS

IGP-DURA[®]*xal* is more than just a powder coating! The elegant IGP-DURA[®]*xal* has an unmistakable material quality and resembles smooth matt anodised aluminium, due to its fine micro-structure. It also has excellent cleaning properties and is resistant to weather and mechanical effects.

Unrivalled surface effect and range of design options

- Deep-matt, satiny surface finish, gloss reflections
- Excellent coating characteristics
- Wide range of colors and effects
- Resembles an anodised surface on steel, cast components and aluminium alloys

Safety and application

- High recycling stability (IGP premium bonding)
- Simple and safe application
- Reproducible, homogeneous finish

Environment

- No toxic ingredients
- No emissions after manufacture
- Environmentally-friendly production in powder coating quality

Economy

- Maximum utilisation of materials
- Long-lasting surface quality
- Problem-free facade cleaning

Two product qualities for perfect results

IGP-DURA[®]*xal* 4201

- Highly weather-resistant quality
- Excellent color-fastness and gloss stability
- Approved for highly weather-resistant systems (Qualicoat Class 2, N°, P-1124)
- Long warranty periods
- Effect and plain colors in a highly weather-resistant color spectrum, shades adapted to special shades*

IGP-DURA[®]*xal* 4601

- Weather-resistant industrial quality
- Above-average chemical resistance
- Expanded color range in effect and plain colors with numerous additional RAL, NCS and special shades*

Liquid supplemental lacquer

As a wet variation for IGP-DURA[®]*xal* powder, the optional product DOLD SPACELINE DURA[®]*xal* LIQUID is available for the stationary coating of facades and architectural elements (Manufacturer: DOLD AG, Wallisellen).

* Special shades in accordance with customer specifications with pearl mica effect can be produced starting at a minimum order quantity of 200 kg.

swiss quality



Gemeindehaus Volketswil, Volketswil

VorZug, Baar

Limmathof, Baden

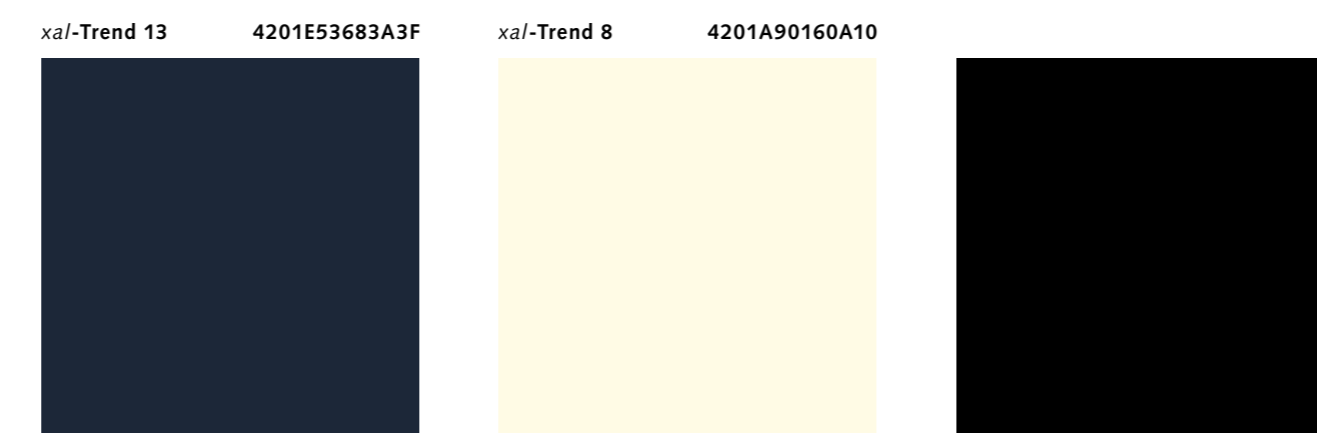
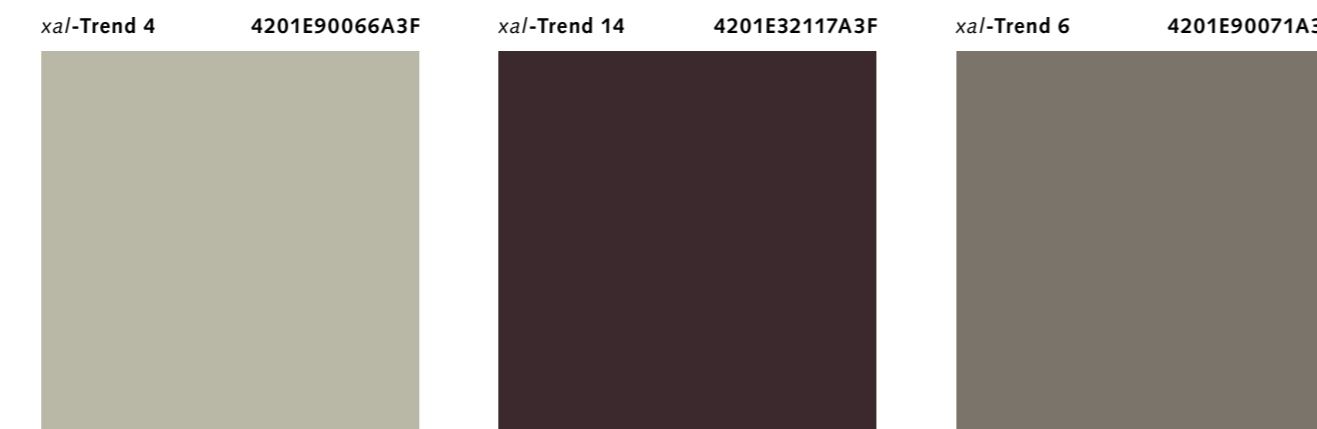


POWDER COATINGS.

CLASSIC
IGP-DURA®*xal* 4201



TREND
IGP-DURA®*xal* 4201



xal-Trend 11 4201E90171A3F

STYLE
IGP-DURA®*xal* 4201



DESIGN
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