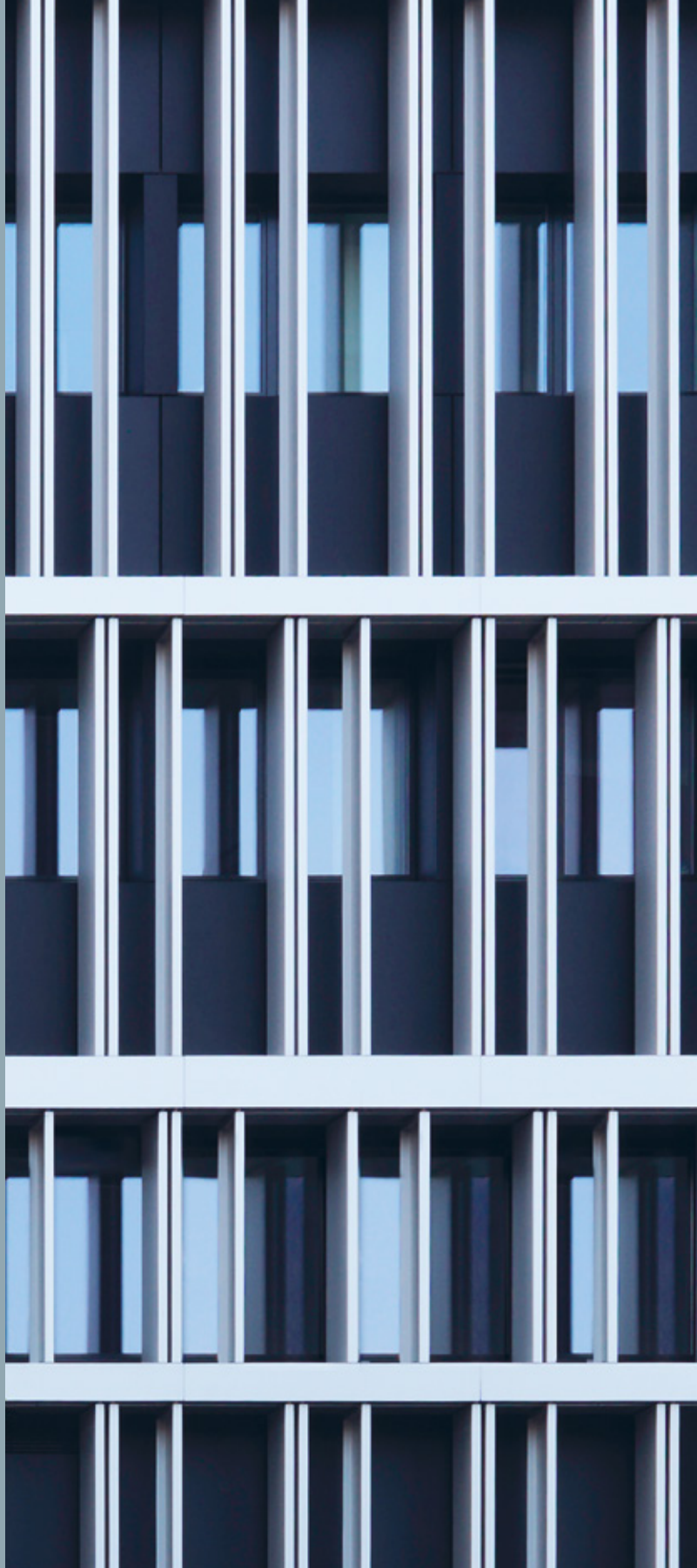


IGP Architectural Quality Matrix

IGP powder coating systems provide long-term facade protection at a low cost



POWDER COATINGS.

COMPARISON OF 4 ARCHITECTURAL QUALITY CLASSES

Product quality		IGP-DURA [®] face 58 series	IGP-HWFclassic 59 series	IGP-DURA [®] xal 42 series	IGP-HWFsuperior 57 series
Coating base		Polyester base	Modified polyester base	Acrylate copolymer	Modified polyester base
Application		Standard facade quality weather-resistant	Standard/property quality highly weather-resistant	Property and design quality highly weather-resistant	Premium property quality highly weather-resistant-PLUS
Performance	Tests				
Chemical resistance	Mortar resistance according to GSB and Qualicoat	Metallic coatings may show minor visual changes	Metallic coatings may show minor visual changes	Metallic coatings may show minor visual changes	Metallic coatings may show minor visual changes
	Acids, lyes, cleaning agent solution neutral	Determined on a case-by-case basis, good	Determined on a case-by-case basis, good	Determined on a case-by-case basis, good	Determined on a case-by-case basis, good
Minimum corrosion resistance requirements	Condensate test	1000h, DIN EN ISO 6270-2	1000h, DIN EN ISO 6270-2	1000h, DIN EN ISO 6270-2	1000h, DIN EN ISO 6270-2
	Salt spray test AASS = ESS	500h / GSB; 1000h / QC DIN EN ISO 9227	750h / GSB; 1000h / QC DIN EN ISO 9227	750h / GSB; 1000h / QC DIN EN ISO 9227	1000h / GSB und QC DIN EN ISO 9227
Weathering	Florida weathering / certifications residual gloss in %	1 year exposure / GSB & QC 1 y: ≥ 50%	3 years exposure / GSB & QC 1 y: ≥ 75%, 2 y: ≥ 65%, 3 y: ≥ 50%	3 years exposure / Qualicoat 1 y: ≥ 75%, 2 y: ≥ 65%, 3 y: ≥ 50%	5 years exposure / GSB 5 y: ≥ 50%
	Color fastness depending on shade according to WOM, accelerated weathering test	GSB Standard, Sec. 4.5 Qualicoat Class 1, appendix A7	GSB Master, Sec. 4.5 Qualicoat Class 2, appendix A7	Qualicoat Class 2, appendix A7	GSB Premium, Sec. 4.5 Qualicoat Class 2, appendix A7
	UV-B weathering	Residual gloss after 1000h ≥ 50%	Residual gloss after 1000h ≥ 90%	Residual gloss after 1000h ≥ 90%	Residual gloss after 1500h ≥ 90%
		Residual gloss after 300h ≥ 50%	Residual gloss after 600h ≥ 50%	Residual gloss after 600h ≥ 50%	Residual gloss after 1000h ≥ 50%
Quality mark associations	GSB / Qualicoat / Qualisteelcoat / AAMA	GSB Standard / Qualicoat Class 1 / Qualisteelcoat SD2, HD2	GSB Master / Qualicoat Class 2	Qualicoat Class 2	GSB Premium / Qualicoat Class 2 / AAMA 2604-10
Applications involving rising corrosiveness		Weather resistance →			
Warranty depends on: – Location – Substrate – Pre-treatment – Coating structure	Rural areas, light soiling, dry	Warranty contract no more than 10 years, one-coating structure	Warranty contract no more than 15 years, one-coating structure	Warranty contract no more than 15 years, one-coating structure	Warranty contract no more than 20 years, one-coating structure
	Urban and industrial climate with moderate soiling	Warranty contract no more than 5 years, one-coating structure	Warranty contract no more than 12 years, one-coating structure	Warranty contract no more than 12 years, one-coating structure	Warranty contract no more than 17 years, one-coating structure
	Urban and industrial climate with high soiling	Warranty contract no more than 5 years, two layer with IGP-KORROPRIMER	Warranty contract no more than 10 years, two layer with IGP-KORROPRIMER	Warranty contract no more than 10 years, two layer with IGP-KORROPRIMER	Warranty contract no more than 15 years, two layer with IGP-KORROPRIMER
	Industrial area, high humidity and / or aggressive chemicals, coastal area	Warranty contract no more than 5 years, pre-anodisation recommended for aluminium, two layer with IGP-KORROPRIMER	Warranty contract no more than 10 years, pre-anodisation recommended for aluminium, two layer with IGP-KORROPRIMER	Warranty contract no more than 10 years, pre-anodisation recommended for aluminium, two layer with IGP-KORROPRIMER	Warranty contract no more than 12 years, pre-anodisation recommended for aluminium, two layer with IGP-KORROPRIMER
Coating and upkeep costs (one-coating structure)	Proportion of glass approx. 40% and > 75%	40% 75%	40% 75%	40% 75%	40% 75%
	Impact on facade costs	100% 100%	100.8% 100.4%	101.2% 100.8%	102% 101.6%
	Payback period	– –	42 months 30 months	60 months 60 months	60 months 72 months
	Cleanability	Good	Very good	Very good	Excellent
	Sample cleaning intervals: Urban, moderate soiling	Every 18 months upkeep cleaning Every 7 years deep cleaning	Every 24 months upkeep cleaning Every 8 years deep cleaning	Every 24 months upkeep cleaning Every 8 years deep cleaning	Every 30 months upkeep cleaning Every 10 years deep cleaning

Coatings with metal effect pigments have to be cleaned more frequently because they may not be able to be abrasively cleaned.

Product qualities and upkeep costs

Your choice of product quality affects more than just gloss retention and color fastness. It also determines chemical resistance (e.g. cleaning agents), cleaning requirements and the overall cleaning intervals for your property. Higher-quality coatings perform better and cost less to maintain. They retain their color and gloss longer, are easier to clean and protect the value of your facade better.

System costs according to the matrix

The matrix looks at four sample IGP powder coating systems that represent very different performance categories. Generally, the differences in material costs are overshadowed by labour, transportation, packaging and overhead costs for coating work. To illustrate how your choice of coating system affects the final costs of coated metal facades on a m² basis, we have compared the costs of applying a weather-resistant standard coating on two types of metal facades and added the extra costs in the lower section of the IGP Qualimatrix. The Qualimatrix considers the premiums to be paid for weathering, chemical and mechanical resistance in connection with longer cleaning intervals and lower upkeep costs, which make up for the premiums in a few years.

Basis for calculations

The analysis covered two types of facades, each with a 1.25 m centre-to-centre grid, 3.40 m floor-to-floor height and CHF 850.–/m² facade costs as a cost base (100%) for the comparison, internally and externally coated with a weather-resistant standard polyester powder, RAL 9006, IGP-DURA[®]face, 58 series:

Version A: Mullion-transom facade with >70% glass, transom depth 160 mm, cover plates 50 x 25 mm and flat panel at the slab level.

Version B: Flat metal facade with strip structure, approx. 40% glass, sill cladding inside and outside the building, drip plate and coated interior electrical conduit.

The cost comparison ignores all interior surfaces (support profiles and inside surfaces) since they are all assumed to be coated with a weather-resistant IGP-DURA[®]face, 58 series polyester system that meets Qualicoat Class 1 criteria (GSB Standard). This means that the additional costs in the matrix come from selecting higher-quality exterior coatings.

Note: Support profiles can only be coated separately as shown in the comparison example if they have a thermal break (mainly aluminium profiles). Cleaning is classified as either upkeep cleaning or deep cleaning. Generally speaking, metal facades with a considerable proportion of glass cost less to clean than facades with a large proportion of coated surfaces. The cleaning costs do not include the expense of providing scaffolding and can vary slightly depending on local prevailing wages.

Cost and performance information may vary depending on the shade and article. Please see our technical data sheets for official performance details.

Coating structure for our comparison example

Substrate: Aluminium sheets and aluminium mouldings
Pre-treatment: Chrome-free pre-treatment (customer-specific) or chromate pretreatment per DIN 12487

Coating: One-layer top coat

Qualities:

- Weather-resistant facade quality (QC Class 1, GSB Standard)
- Highly weather-resistant quality (QC Class 2, GSB Master)
- Highly weather-resistant quality deep matt (QC Class 2)
- Highly weather-resistant-Plus quality (QC Class 2, GSB Premium)

Color: Pearl mica RAL 9006 matt

Environment: Contains no solvents, heavy metals or other toxic constituents

Warranties

We provide long-running, project-specific guarantees of tested IGP quality classes for your properties and facades. The warranty period varies depending on the chosen quality class, the required cleaning intervals and the location.

Cleaning intervals

Exhaust, industrial emissions and rising UV levels can adversely affect facade coatings and produce visible changes in decorative and protective coats over the long term. You can improve and maintain the long-term color fastness, effect brilliance, gloss level and protective properties of your coating through regular cleaning and the application of preservatives where appropriate. We advise architects and designers to educate their clients about the cleaning recommendations issued by certifying organizations (www.grm-online.de, www.szff.ch, etc.).

Useful facade network links

GSB, international organization for quality surface coating e.V. www.gsb-international.de
Qualicoat, Tested Seal of Quality for Metal Facade Coatings www.qualicoat.net
SZFF, Swiss Centre for Windows and Facades www.szff.ch
Quality Assurance Rules for Metal Facade Cleaning 51.01 www.knowledge-center.ch
GRM, Quality Association for Metal Facade Cleaning www.grm-online.de
VFF, German Association of Window and Facade Manufacturers www.window.de
Swiss Aluminium Association www.alu.ch
Austrian Aluminium Window Institute www.alufenster.at
Sustainable Construction – Building for Our Future www.sustainblog.ch

GROUP COMPANIES

Austria

IGP Pulvertechnik GesmbH
Alois Lutter-Strasse 33
Tor 2 / M38 / 8A
AT-2514 Traiskirchen
Phone +43 (0)2252 508046
Fax +43 (0)2252 508046 14
info.at@igp-powder.com

Benelux

IGP Benelux BV
Rietveldstraat 18
NL-8013 RW Zwolle
Phone +31 38 4600695
Fax +31 38 4600696
info@igpbenelux.nl
www.igp-powder.com

France

IGP Pulvertechnik SAS
Bâtiment Europa 1 – BP 70615
362 avenue Marie Curie
Archamps Technopole
FR-74166 St Julien en Genevois Cedex
Phone +33 (0)4 50 95 35 10
Fax +33 (0)4 50 95 30 15
info.fr@igp-powder.com

Germany

IGP Pulvertechnik Deutschland GmbH
Alte Regensburger Strasse 14
DE-84030 Ergolding
Phone +49 (0)871 966 77 0
Fax +49 (0)871 966 77 111
info.de@igp-powder.com
www.igp-powder.com

Great Britain

IGP UK
Fromeforde House
Church Road, Yate
GB-Bristol, BS37 5JB
Phone +44 (0)1454 800 020
enquiries@igpuk.com

Hungary

IGP Hungary Kft.
Bercsényi M. u. 14.
HU-6000 Kecskemét
Phone +36 76 507 974
Fax +36 76 507 975
info@igphungary.hu
www.igp-powder.com

North America

IGP North America LLC
13050 Middletown Industrial Blvd
Unit D
Louisville, Kentucky 40223 U.S.A
Phone +01 502 242 7187
info.us@igp-powder.com
www.igp-powder.com

Poland

IGP Pulvertechnik Polska Sp. z o.o.
ul. Łąkowa 3
PL-05-822 Milanówek
Phone +48 22 724 94 49
Phone/Fax +48 22 758 31 83
Fax +48 22 758 37 98
igp@igp.pl
www.igp.pl

Scandinavia

IGP Scandinavia AB
Drottensgatan 2
SE-222 23 Lund
Phone +46 46 120 220
info.se@igp-powder.com

Italy

IGP Market Manager
Massimiliano Stanganelli
Mobile +39 327 38 70 168
massimiliano.stanganelli@igp-powder.com

DISTRIBUTION PARTNERS

Bulgaria

TM Gamasystem Ltd.
35, Aleko Konstantinov
BG-1505 Sofia
Phone +359 2943 3677
tmgama@omega.bg
www.itwfinishingbg.com

Czech Republic/Slovakia

OK Color spol. s.r.o.
F.V. Veselého 2760
CZ-193 00 Praha 9
Phone +420 283 881 252
Fax +420 286 891 097
praha@okcolor.cz

Romania

S.C. Paint Art S.R.L.
Str. Gorjului nr. 5, sc. C, ap. 26
RO-550063 Sibiu
Phone +40 (0)269 21 49 15
Fax +40 (0)269 21 49 15
office@paintart.ro
www.paintart.ro

Russia

Industrial coating systems «KSK»
Lubertsy, ul. Krasnaya, 4
140000 Moscow Region
Phone/Fax +7 (495) 232 64 42
www.ksk-systems.ru

Turkey

Altinboy Ltd.
Perpa Is Merkezi A blok Kat: 6 No: 526
TR-34384 Okmeydani-Sisli, Istanbul
Phone +90 212 222 87 01
Fax +90 212 222 67 92
omer@altinboy.com.tr
www.altinboy.com.tr



POWDER COATINGS.

IGP Pulvertechnik AG
Ringstrasse 30
9500 Wil, Switzerland
Phone +41 (0)71 929 81 11
Fax +41 (0)71 929 81 81
www.igp-powder.com
info@igp-powder.com

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