Effective Corrosion Protection with Powder Coating

High humidity, temperatures above 0 °C, and reactive air contaminants, such as sea salt, are the big drivers of metal corrosion. In addition, aggressive chemicals can trigger, favor and accelerate this process.

If no countermeasures are taken, a steel surface can degrade up to 200 µm of layer thickness in just one year.

Scan me!

C4 - H* QUALISTEELCOAT

Steel ST2		Galvanized Steel HD2		Galvanized Steel SZ2
Pretreatment mechanical	Pretreatment chemical (Zn-Phos.)	Pretreatment mechanical	Pretreatment chemical (Zn-Phos.)	Pretreatment chemical (Zn-Phos.)
Series 270 Epoxy (QIB 0055 | PE-0127) Series 271 Epoxy (QIB 0057 | PE-0129)	Series 270 Epoxy (QIB 0056 | PE-0128) Series 271 Epoxy (QIB 0058 | PE-0130) Series 272 Hybrid (QIB 0059 | PE-0131)	Series 270 Epoxy Series 271 Epoxy Series 273 Polyester	Series 270 Epoxy Series 271 Epoxy Series 273 Polyester	Series 272 Hybrid (QIB 0084 | PE-0253)

C5 - H* QUALISTEELCOAT

Steel STEC3	Galvanized Steel HD2	
Pretreatment chemical (Zn-Phos.) + e-coat	Pretreatment mechanical	Pretreatment chemical (Zn-Phos.)
Series 272 Hybrid (QIB 0083 | PE-0251)	Series 270 Epoxy (QIB 0060 | PE-0132) Series 271 Epoxy (QIB 0062 | PE-0134) Series 273 Polyester (QIB 0064 | PE-0136)	Series 270 Epoxy (QIB 0061 | PE-0133) Series 271 Epoxy (QIB 0063 | PE-0135) Series 272 Hybrid (QIB 0085 | PE-0254) Series 273 Polyester (QIB 0065 | PE-0137)

DBS 918 340

Aluminum	Steel
Pretreatment chemical (chrome free)	Pretreatment chemical (Zn-Phos.)
Series 270 Epoxy (Productqualification No. 20) Series 273 Polyester (Productqualification No. 5)	Series 270 Epoxy (Productqualification No. 18) Series 271 Epoxy (Productqualification No. 9/10/12/15/18) Series 273 Polyester (Productqualification No. 9/10/18)

TIGER Drylac® Primer	TIGER Drylac® Product-ID	Color	Chemistry	Features	Substrate	Surface	Cure parameters
Series 270	270/70158	RAL 7032	Epoxy	outgassing friendly, very good edge coverage	Steel + galvanized Steel Aluminum	smooth flat matte	160 °C / 30 min 180 °C / 15 min 200 °C / 8 min
	270/70400	approx. RAL 7042					
	270/70338	approx. RAL 7042		highly outgassing forgiving, very good edge coverage			
*Flex*CURE Series 271	271/70100	approx. RAL 7042	Epoxy	low temperature, very good edge coverage	Steel + galvanized Steel	smooth glossy	140 °C / 30 min 160 °C / 15 min 200 °C / 5 min
	271/70003	RAL 7032					
Series 272	272/70855	approx. RAL 7042	Hybrid	outgassing friendly, excellent flow, good edge coverage	Steel + galvanized Steel Aluminum	smooth glossy	160 °C / 30 min 180 °C / 15 min 200 °C / 8 min
Series 273	273/70001	approx. RAL 7032	Polyester	UV stable, very good edge coverage	Galvanized Steel Aluminum	smooth semi gloss	160 °C / 30 min 180 °C / 15 min 200 °C / 8 min

Corrosivity category according to DIN EN ISO 12944-2	Neutral salt spray test / h**	Examples for ambient conditions Exterior	Examples for ambient conditions Interior
C1 - very low	–	n/a	Heated buildings with clean atmosphere.
C2 - low	240 h	Outdoor areas without heavy pollution.	Unheated buildings.
C3 - medium	480 h	Outdoor areas with medium SO2 load and coastal regions with low salinity.	Production building with high humidity and some contamination.
C4 - high	720 h	Industrial areas and coastal regions with medium salt content.	Chemical plants, swimming pools and ports.
C5 - very high	1.440 h	Industrial areas with aggressive atmosphere and high humidity. Coastal regions with high salinity.	Buildings with continuous condensation and polluted atmosphere.

FlexCURE stands for modern powder coating with maximum efficiency and flexibility. Variable curing temperatures of 150–200 °C significantly reduce energy consumption and CO^2 emissions – while maintaining consistently high coating quality and optimum process reliability.

More Informationen

Abbreviation

ST2	Steel; 2 powder coating layers
HD2	Hot-dip galvanized steel; 2 powder coating layers
SZ2	Continuously galvanized steel; 2 powder coating layers
STEC3	Steel + e-coat
DBS 918 340	Deutsche Bahn Standard

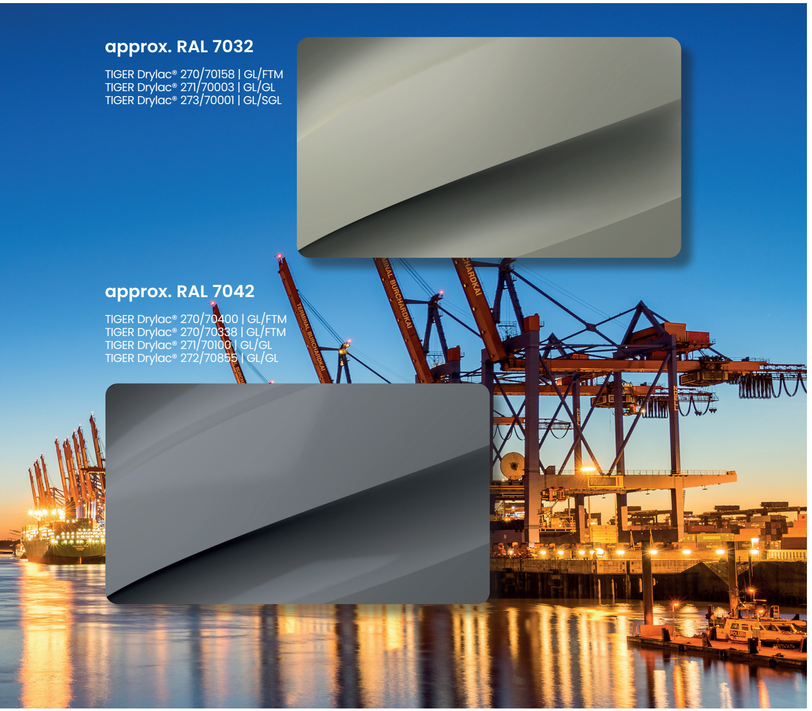
* Certificates for C5 - H are valid for C4 - H as well.

** Standard durability range according to DIN EN ISO 12944-1: high (H) – 15 to 25 years (for all corrosivity categories)

Source bottom table: Qualisteelcoat Technical Specification Version 5.0.1 - January 2026 page 6 | https://qualisteelcoat.net/assets/downloads/w7el309l2102300lab025025665f48cf/QUALISTEELCOAT_Version_5.0.1_with_Annexes_01.01.2026.pdf

The guidelines for application in their latest version, are available for download on www.tiger-coatings.com

CORROSION PROTECTION



Certificates

GSB INTERNATIONAL

quali steel coat

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DB

Certification of Management System:
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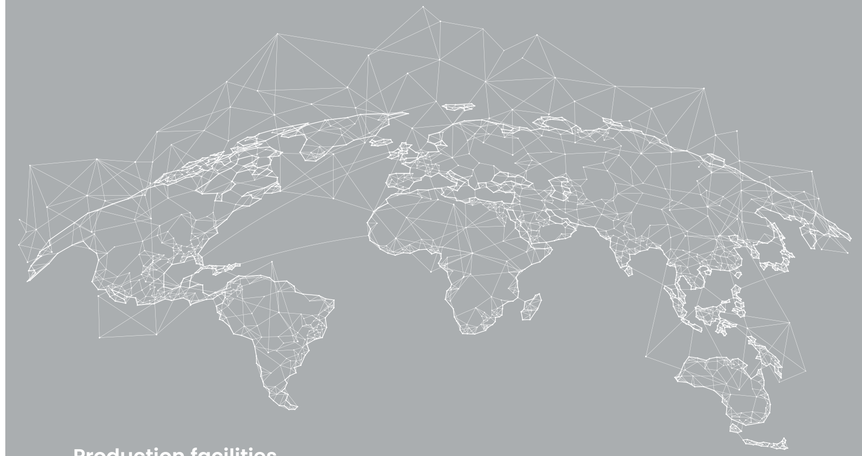

Production facilities
Austria | China | Canada | Mexico | U.S.A. | Vietnam

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Estonia | France | Germany | Great Britain | Greece | Hungary | Italy | Latvia | Lithuania | Macedonia
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TIGER Drylac® Powder Coatings

Powder Coating Corrosion Protection Primer

Long-lasting corrosion protection

Dual layer system

TIGER-SHIELD

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