E200602

Corrosion protection with fluoropolymer

Tested according to TL/TP-KOR steel structures

Sheet 87

MONOPOL
COLORS

Long-lasting protection without loss of gloss or color

System Fluoropolymer

As per Sheet 87 TL/TP-KOR Steel constructions

Steel substrate Blast cleaned as per ISO 8501-1, Sa 2½	Primer DUOPOL Z60 2C-Epoxy-Zinc Dust	Primer / Edge protection DUOPOL Steelguard C80 2C-Epoxy-Zinc Phosphate	Intermediate coat DUOPOL EP D253 2C-Epoxy-Micaceous iron oxide	Top coat VERNIDUR FP 2C-FP-Top coat*
Color	grey	RAL 1002 / RAL 7035	DB 701 / DB 703	DB-colors, RAL, NCS or samples
Density	2,27 kg/l	1,56 kg/l	1,5 kg/l	1,05 - 1,35 kg/l
Solids volume	~ 58 %	~ 70 %	~ 61 %	~ 33 - 41 %
Consumption (theoretical)	270 g/m² @ 70 µm DFT	180 g/m² @ 80 µm DFT	200 g/m² @ 80 µm DFT	~ 260 g/m² @ 80 µm DFT
Mixing ratio by weight	20:1 with hardener Y	10 : 1 with hardener H80	8:1 with hardener H200	10:1 with hardener H481
Potlife	12 h @ 20 °C	2 h @ 20 °C	5 h @ 20 °C	3 h @ 20 °C
Application temperatures	≥ 10 °C - ≤ 40 °C	≥ 5 °C - ≤ 40 °C	≥ 10 °C - ≤ 40 °C	≥ 10 °C - ≤ 40 °C
VOC-value (mixture)	~ 20 %	~ 19 %	~ 25 %	35 - 55 %
Thinner	V2	V2	V2	V109
Drying time (23 °C / 50 % humidity)				
– Dust-free	10 minutes	30 minutes	30 minutes	30 minutes
– Dry to touch	1 hour	1 hour	3 hours	3 hours
– Coatable (80 µm DFT)	24 hours	4 hours	8 hours	24 hours
Max. temperature resistance dry	160 °C	160 °C	140 °C	140 °C
Packaging	15 kg coating / 0,75 kg hardener 30 kg coating / 1,5 kg hardener	20 kg coating / 2 kg hardener 10 kg coating / 1 kg hardener	24 kg coating / 3 kg hardener 8 kg coating / 1 kg hardener	20 kg coating / 2 kg hardener 10 kg coating / 1 kg hardener
Storage life	12 months	12 months	12 months	12 months
				*D483 for micaceous colors, D481 for colors RAL, NCS or samples

Sheet 87 of the Federal Office for Road Construction: Greatest UV stability thanks to fluoropolymer
Sheet 87 of the Federal Office for Road Construction (Germany) is the standardized system in steel and bridge construction. Only polyurethane coatings are allowed in this system, representing a distinct disadvantage: the limited UV stability. The result? As time goes on, the coating looks faded and dull – the original aesthetic is lost.

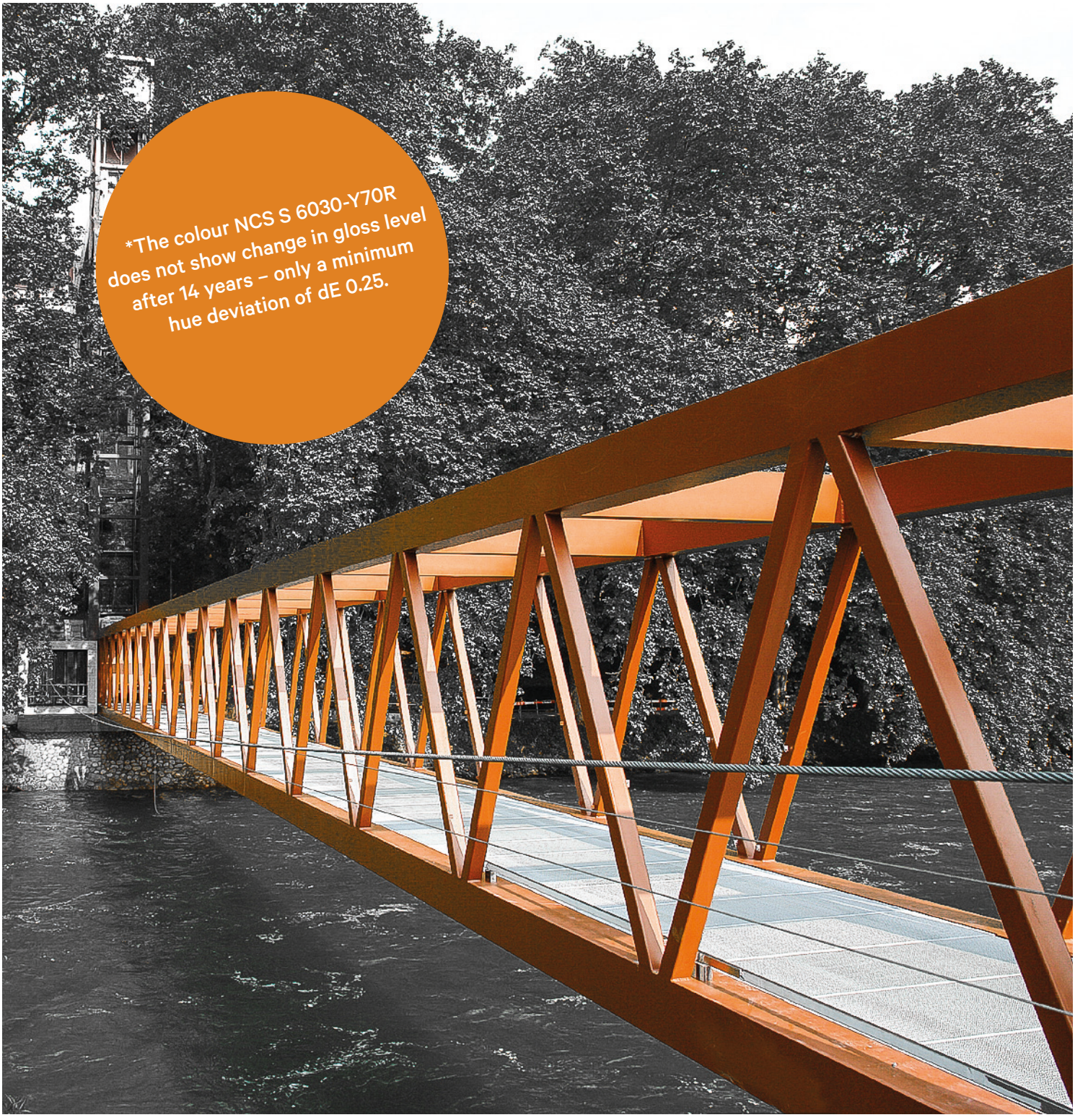
That is why Monopol Colors has had their coating composition with the ultra-resistant fluoropolymer successfully tested according to Sheet 87. The result? The coating composition has equivalent corrosion protection and significantly greater UV stability. Thus expensive renovations are avoided, you save money and the coating shines for the next 20 years or longer.

Coating system example

Primer ZN	DUOPOL Z60	70 µm
Primer ZP / Edge protection	DUOPOL Steelguard C80 RAL 7035	80 µm
1st Intermediate coat	DUOPOL EP D253 DB 703	80 µm
2nd Intermediate coat	DUOPOL EP D253 DB 701	80 µm
Top coat	VERNIDUR FP D481 / D483	
	rolling application	2 x 40 µm
	spraying application	1 x 80 µm
Total dry film thickness		310 µm / 320 µm

MONOPOL
COLORS

The Center of Excellence for Paints



Monopol AG
Oberrohrdorferstrasse 51, CH-5442 Fislisbach
Phone +41 56 484 77 77, Fax +41 56 484 77 99
info@monopol-colors.ch, www.monopol-colors.ch