

URALAC[®] CORRES

INTRODUCING: A CORRES SUPERDURABLE HAA SYSTEM

Uralac[®] Corres P 7684



BACKGROUND

There is a clear global market trend towards powder coatings which have an improved corrosion resistance in combination with improved outdoor durability. This creates a need for high gloss superdurable HAA powder coatings with an excellent corrosion resistance.

To expand and to complement the Uralac® Corres portfolio, P 7684, a 96/4 superdurable polyester is developed with an excellent corrosion resistance.



¹⁾Uralac® Corres and its impact on a reduction of carbon footprint in powder coating formulations has been measured in LCA study conducted by DSM (For more info: www.dsmcoatingresins.com)



PRODUCT DATA

URALAC[®] CORRES P 7684 (4% HAA)

PRODUCT DATA	RANGE	UNIT	TM
Acid value	26-30	Mg KOH/g	2400-07
Viscosity, Brookfield	20-40	Pa.s	2727-05
Colour	< 8.0	b*	2019-03
T _g	≈ 60	° C	2076-05



VALUE PROPOSITION

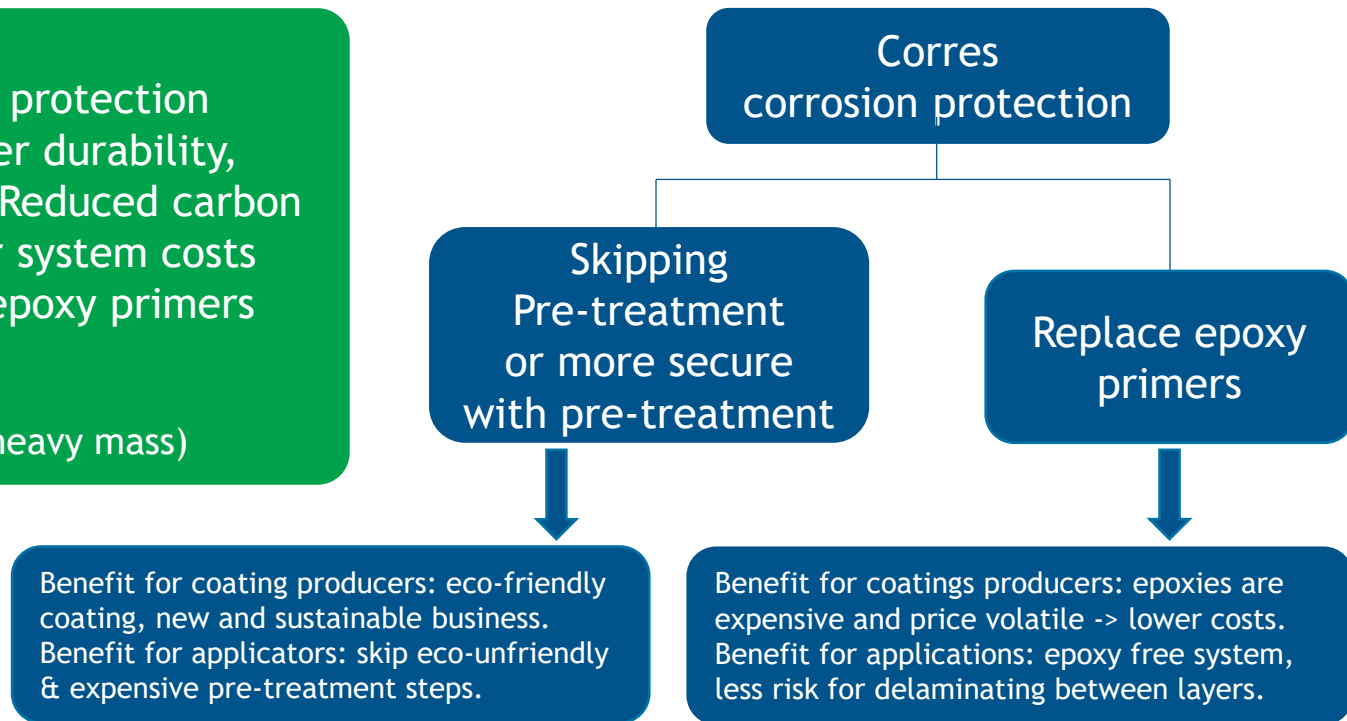
URALAC® CORRES P 7684 (4% HAA)

VALUE PROPOSITION

Excellent corrosion protection combined with super durability, with a single coat. Reduced carbon footprint and lower system costs compared to pure epoxy primers

APPLICATIONS:

Architectural & ACE (heavy mass)



COATING PROPERTIES

URALAC® CORRES P 7684 (4% HAA)

	WHITE DSM PDS FORMULATION WITHOUT FILLER
	Uralac® P 7684 (4% HAA)
Total curing time	12' 180 °C
Appearance	Ok
Flow	good
Mechanicals (ESP)	3 mm
Blooming	no
QUV B (gloss retention 50%)	747 hrs
Physical Stability 40 °C, 1 day	9
Physical Stability 40 °C, 1 month	8
Degassing limit	110µm
Adhesion (GT 0)	good

KEY PROPERTIES:

- ✓ Excellent corrosion resistance
- ✓ Proven excellent outdoor durability
- ✓ Superdurable grade
- ✓ Good flow
- ✓ Non blooming
- ✓ Good storage stability
- ✓ Total curing time: 12' 180°C
- ✓ Tin free*

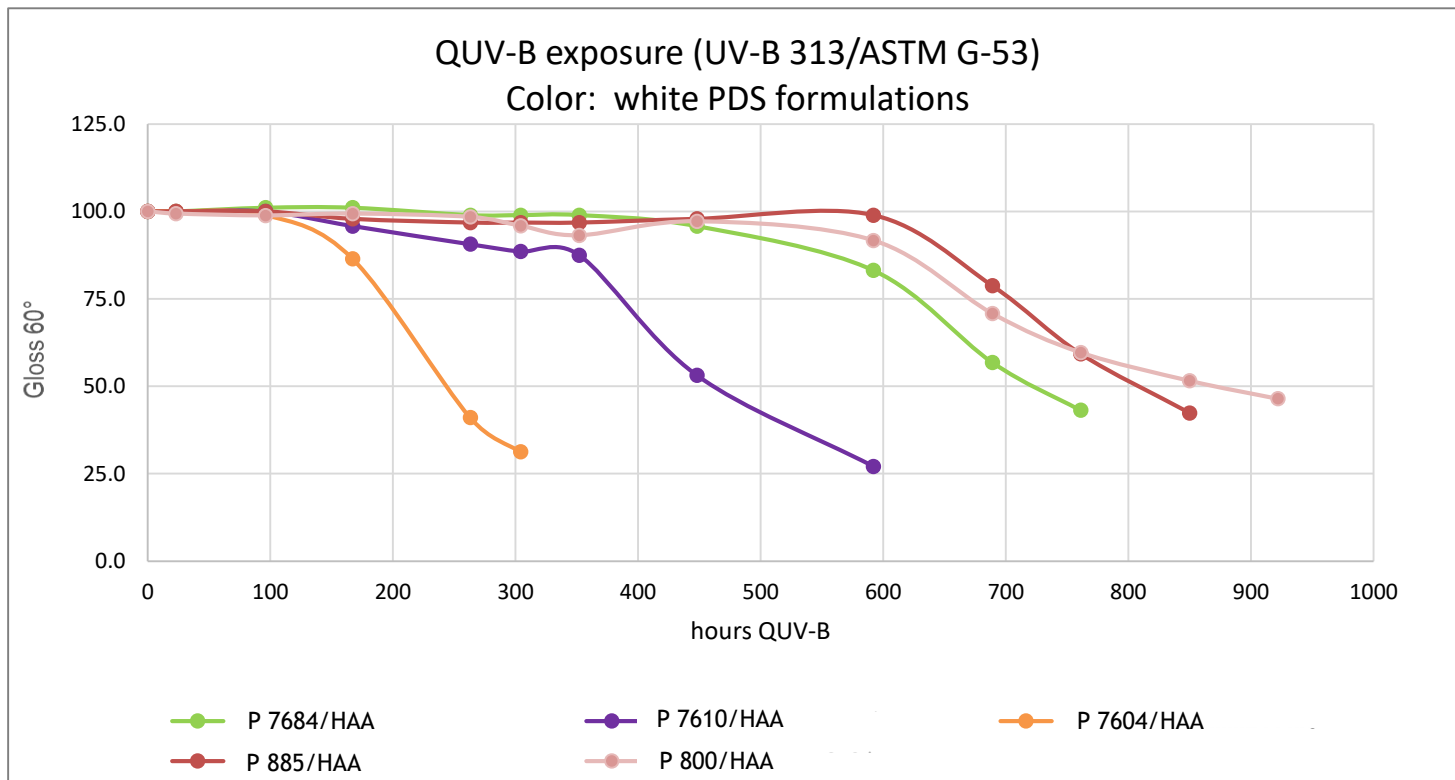
**) tin is not intentionally added to Uralac® P 7684*

CORROSION AND QUV-B COMPARISON WITH MARKET REFERENCES

	White PDS formulations			Green ACE formulations			Yellow ACE formulations		
	Uralac®			Uralac®	Commercial powder coating		Uralac®	Commercial powder coating	
	P 7684	P 7610	P 885	P 7684	OEM A (no primer)	OEM B (with primer)	P 7684	OEM A (no primer)	OEM B (with primer)
NSS 500 h (mm from Scribe)	1.4	1.4	2.0	1.5	1.6	1.7	1.3	1.7	1.6
Cyclic corrosion 20 cycles (mm from scribe)	2.8	2.4	4,3	2.5	2.5	2.8	2.4	3.2	2.9
SAE J2334 40 cycles (mm from scribe)	5.1	5.5	6.9	4.7	4.6	5.7	5.1	5.6	5.1
QUV-B (hrs)	747	465	810	597	272	263	878	299	342

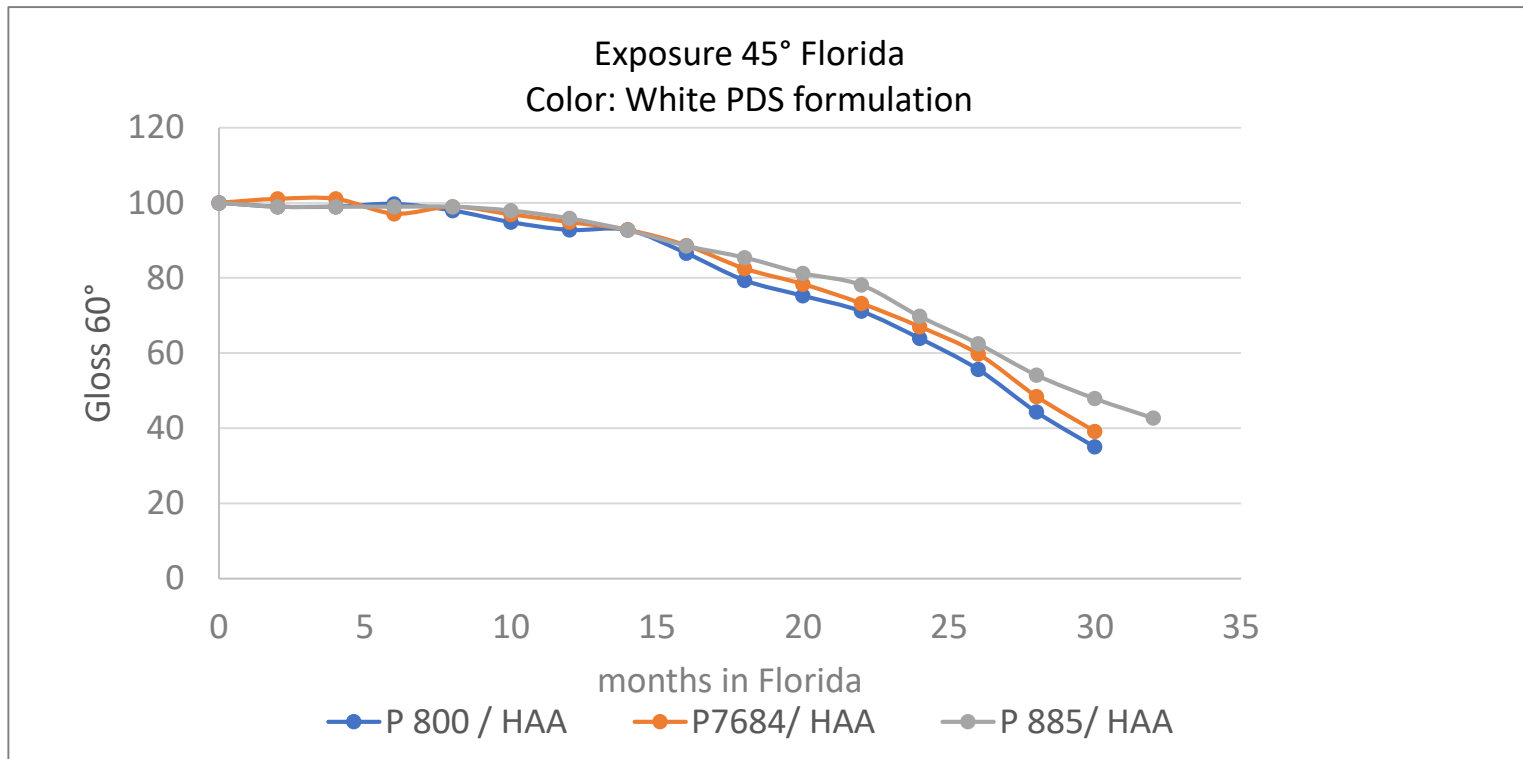
QUV-B EXPOSURE

URALAC® CORRES P 7684



FLORIDA EXPOSURE

URALAC® CORRES P 7684



URALAC® CORRES

General industry:

Uralac® P 7604 (4% HAA)

Uralac® P 7620 (7% TGIC)

Architectural

Uralac® P 7610 (4% HAA)

Superdurable

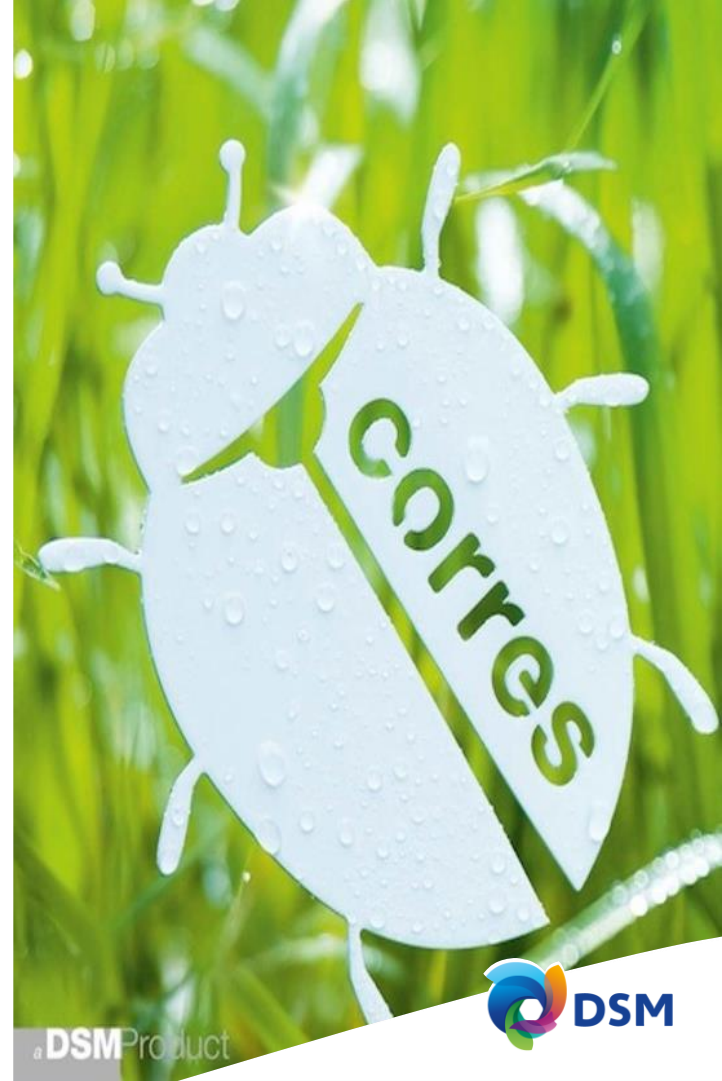
Uralac® P 7684 (4% HAA)

Hybrid:

Uralac® P 7630 (70/30)

*Excellent corrosion protection and outdoor durability,
with a single coat.*

*Reduced carbon footprint and lower system costs
compared to pure epoxy primers.*



BRIGHT SCIENCE. BRIGHTER LIVING.™

