



Uralac® Corres

Corrosion protection.

Indoor & outdoor polyesters.



Products

Industrial

Uralac® P 7604 (4% HAA)

Uralac® P 7620 (7% TGIC)

Architectural

Uralac® P 7610 (5% HAA)

Superdurable

Uralac® P 7684 (4% HAA)

Indoor

Uralac® P 7630 (30% Epoxy)

Value proposition

Excellent corrosion protection; comparable to epoxy primer with lower system cost and reduced carbon footprint*.

Uralac® Corres corrosion protection

Replace epoxy primers

Benefit for coating producers

Epoxies can be price volatile → lower costs

Benefit for applicators

Less or no Bisphenol-A epoxy, less risk for delaminating between layers

Markets

General industry, domestic appliances, metal furniture, gas pipes, ACE & HVAC.

Coating chemistry

Carboxylated polyester for curing with TGIC (triglycidyl isocyanurate), HAA (β-Hydroxyalkylamine) or epoxy resins.

Substrates

Cold rolled steel, grit & sand blasted steel, Fe-phosphated and galvanized steel.



* **Uralac® Corres** and its impact on a reduction of carbon footprint in powder coating formulations has been measured in LCA study conducted by Covestro (For more info: coating.resins@covestro.com)

Key properties

For single coat applications:

excellent direct to metal corrosion protection on steel.

For primer applications:

excellent corrosion protection up to 960 hrs NSS and improved intercoat adhesion (especially in direct gasoven) compared to pure epoxy primers.

Polyesters

	Uralac® P 7604	Uralac® P 7610	Uralac® P 7620	Uralac® P 7684	Uralac® P 7630	Pure Epoxy
Formulation (PDS)	White	White	White	White	White	White
Crosslinker	HAA	HAA	TGIC	HAA	epoxy	DICY
Cure Cycle (total time)	15' 180°C	15' 180°C	10' 200°C	12' 180°C	10' 180°C	15' 200°C
NSS* resistance, 480 hrs	< 2.5 mm	< 2.3 mm	< 2.2 mm	< 2.3 mm	< 2.2 mm	< 3.9 mm
NSS resistance, 720 hrs	< 3.2 mm	< 3.3 mm	< 2.8 mm	< 3.3 mm	< 2.8 mm	< 5.1 mm
NSS resistance, 960 hrs	< 5.8 mm	< 5.8 mm	< 4.5 mm	< 4.7 mm	< 5.1 mm	< 5.4 mm
Cyclic Corrosion**, 20 cycles	< 2.5 mm	< 2.5 mm	< 2.5 mm	< 2.3 mm	< 2.4 mm	< 2.4 mm
Flow (PCI)	5	6	6	6	6	5
Reverse impact, AQT-46	7 Nm	Moderate	7 Nm	Limited	7 Nm	7 Nm
Reverse impact, S-46	18 Nm	Moderate	18 Nm	Limited	18 Nm	18 Nm
Outdoor durability	GI	• GSB FI 1Y • QC cl 1 • AMAA 2603	• GSB FI 1Y • QC cl 1 • AMAA 2603	• GSB FI 3Y • QC cl 2 • AMAA 2604	Indoor	Indoor

* NSS = natural salt spray on bare steel ** Cyclic Corrosion on Iron phosphated steel (Bonderite M-FE 1000)

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¹Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

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