



Architectural & Construction

Coating resins for **light-duty metal**



Resins for a wide range of direct-to-metal applications

Direct-to-metal (DTM) coating technology can simplify and speed up the coating process for fences, railings, radiators, and many other light-duty metal structures. But there is no one-size-fits-all solution. The requirements that DTM coatings need to meet can vary significantly based on the application: outdoor or indoor, DIY or professional.

Coatings for
direct-to-metal



Combining corrosion resistance and workability

For lasting performance on a wide range of metals

While their requirements can vary, all direct-to-metal coatings need to offer good humidity and corrosion resistance (ideally class C1-2) to prevent damage to the metal – particularly since these coatings are often used in outdoor applications. It's also crucial that direct-to-metal coatings are easy to apply through spraying.

Our portfolio of waterborne acrylic styrene resins is designed to meet these needs. These resins offer good resistance to humidity, corrosion, and salt spray – tested through exposure to salty water for several hours – as well as strong adhesion to a variety of metals.



Selected portfolio offerings: Combining corrosion resistance and workability

NAME	DESCRIPTION	SOLIDS (%)	MFFT (°C)	BENEFITS/ MAIN PROPERTIES
NeoCryl® XK-82	Acrylic styrene	40	44	Humidity and corrosion resistance. Good compatibility with many resin technologies.
NeoCryl® XK-85	Acrylic styrene	40	29	Corrosion resistance, water and humidity resistance and adhesion. Combination with urethane dispersions will optimize mechanical surface properties.
NeoCryl® XK-117/1	Acrylic styrene	48	28	Corrosion and humidity resistance and providing good adhesion to various metal substrates.
NeoCryl® XK-86	Acrylic styrene	42.5	31	High gloss and gloss retention; corrosion, humidity and salt spray resistance; outdoor durability and wet adhesion to aluminium and galvanised steel.



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