



Advanced Polymer Technologies for

Joinery

HEALTH • NUTRITION • MATERIALS





New innovations

...to enhance peoples lives.

Our business is all about improving people's lives. At DSM we want to make life brighter for people – today and in generations to come. We connect our unique skills in materials sciences to create solutions that nourish, protect, and improve performance. And contribute to a more sustainable world. This is reflected in how we approach the coatings business.

Brighter future

Some companies see sustainability as a challenge, but at DSM for coating resins we see it as an opportunity, with endless possibilities to work together for a brighter future. By exchanging ideas and collaborating openly, we are making a difference. Innovating to add value to people's lives, ensure profitability, and protect the planet.

Bright Science

Bright Science is at the heart of all we do in coatings. Based on our intimate knowledge of our markets and our deep materials science expertise across a wide range of applications. Our global network of industry specialists spend their working lives traveling the world and talking to customers and other players in the supply chains. Through these deep partnerships built on mutual trust, we create bespoke resins and technologies that enhance our customers' formulations and their customers' everyday experiences.

Brighter Living

This means Brighter Living for everyone. Now you can rest your wine glass on a beautifully lacquered coffee table without leaving a stain. Or apply mosquito spray before heading out into the sun, knowing it won't take the shine off your cabriolet's interior paint. That's the real beauty of Bright Science, brightening lives wherever and whenever it touches them.

DSM for coating resins

DSM has a dedicated division that draws upon its broad know-how and understanding of market and customer needs to develop innovative resin solutions that deliver the best performance in the coatings and graphic arts markets.

From our headquarters in the Netherlands, we provide resins for coatings and graphic arts markets around the globe. We support our customers with manufacturing sites in North America, Europe, and Asia. Our brand names are well known around the world, including NeoCryl™, NeoRez™, NeoPac™, NeoRad™, Hybrane™, Uralac™, Uracron™, Urathix™, and Uradil™.

Customers rely on us for a unique range of tailor-made, sustainable solutions based on water borne, UV, powder, and solvent borne technologies. We are the largest producer of polyester resins in the world and one of the largest producers of specialty emulsions, ensuring a dependable supply of product that fits our customers' individual requirements.

We have a dedicated focus on people, profit, and planet. As an example, we design resin systems with tomorrow's environmental requirements in mind, guided by our Product Stewardship principles, by an awareness of the need for continuity, and by a strong sense of responsibility. We have an outstanding sustainability record in specialty resins that we continue to improve each day.

Joinery

For over 45 years, paint manufacturers, Do It Yourself (DIY), professional, and industrial markets have depended on our expertise in specialty resins to help them meet their toughest challenges in architectural coatings. And produce solutions that enrich people's lives.



Joinery applications include any machine or factory applied coating that is intended for exterior use. DSM has enjoyed a long tradition of working with manufacturers in the joinery market to develop coatings that protect and enhance exterior window frames, doors, claddings, and garden furniture. Our experience in this market is used for applications such as interior/exterior pigmented paints, clear coatings, and wood

stains that can add an appealing color as well as durability. We can help you with current formulating challenges such as the reduction of Volatile Organic Compounds and harmful compounds. Our next generation resins will assist manufacturers in making the technology shift from solvent based to water based systems for more environmentally friendly coatings.

Impregnation

	Solids (%)	pH	Acid Value (mg KOH/g)	Composition	Description	Main benefit(s)					
NeoCryl™ XK-89	43.0 - 45.0	8.0 - 9.0			Acrylic/alkyd	Adhesion to weathered wood, good wet adhesion					
Uradil™ AZ-543	100	6.0 - 8.0	16 - 20	58% linseed	Water soluble alkyd	Wood wetting and penetration properties					

Primers

	Solids (%)	pH	Description	Main benefit(s)					
NeoCryl™ XK-320	43.0 - 45.0	7.7-8.6	styrene/acrylic emulsion	low water uptake, good adhesion,					
NeoCryl™ XK-350	41.5 - 43.5	4.2- 5.2	acid soluble emulsion	good knot bleeding resistance, stain locking properties					

Topcoats

	Solids (%)	pH	Description	Main benefit(s)					
NeoCryl™ XK-232	43.0 - 45.0	7.3 - 7.9	Self crosslinking acrylic emulsion	good blocking resistance at high film thickness					
NeoCryl™ XK-98	43.0 - 45.0	7.3 - 7.9	Self crosslinking acrylic emulsion	good blocking resistance at high film thickness					
NeoCryl™ XK-237	43.0- 45.0	8.0 - 9.0	Self crosslinking acrylic emulsion	low wateruptake, good early water resistance also in satin					
NeoCryl™ XK-238	43.0- 45.0	8.0 - 9.0	acrylic emulsion	low wateruptake, good early water resistance also in satin					

DSM NeoResins

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