For some, UV Radiation evokes fear.

FOR EVONIK, IT EVOKE SUPER-DURABLE DYNAPOL®
SUPER DURABLE DYNAPOL®

Super Durable DYNAPOL® was designed by Evonik for exterior architecture pre-coated metal finishes. The DYNAPOL® polyester resins as well as the DYNAPOL® UB one-pack polyurethane systems offer superior UV resistance and weatherability as binders for coil coating top coats, they provide high gloss retention and excellent chalking, color fade and dirt pick up resistance.

Several grades are available that supply reactivity, flow properties, metal adhesion and well balanced flexibility / hardness properties to meet every requirement and they are backed up by Evonik’s excellent reputation for quality and focused technical support.

Standard polyester coatings, at the lower end of weathering resistance, usually last up to around 5–10 years without chalking or color fading. PVDF coatings, at the very high end of weathering resistance in terms of both performance and costs, are usually able to survive up to more than 20 years of weathering. Standard polyester and PVDF systems are therefore playing in different leagues, leaving a large gap between them.

Evonik designed Super Durable DYNAPOL® paint binders for exterior architectural coil coating top coats to fill this gap.

Their outstanding performance is the base for safety and reliability when used for wall claddings, roofing, garage doors, blinds, window frames, air condition devices, gutters and any other exterior application you can imagine.

ROOFING SYSTEMS

Prepainted metal for the roofing industry is growing by leaps and bounds. Current commercial applications help prove that fact to a growing residential market. Exposed to UV radiation, humidity, acid rain and other weather variables, metal roofs coated with Super Durable DYNAPOL® is durable and stand the test of time.
SUPER DURABLE POLYESTER PAINT BINDERS FIT FOR FUTURE NEAR-INFRARED COIL-COATING TECHNOLOGIES

With DYNAPOL® paint binders our customers will be able to join into latest, ultra modern Coil Coating technologies. Ongoing new developments and constant modifications of our commercial polyester resins as well as intensive application engineering, using state of the art lab equipment are fundamental key points for Evoniks success being a top player in NIR-Coil-Coatings-Technology. Our thoroughly evaluated primer and top coat paint formulations for architectural steel and aluminium applications, together with our well recognized expertise in NIR-Technology can be your step into future business.

Together with the entire DYNAPOL® product line, our customers are able to choose the polyester resin grades that meet their business needs. From special primer resins to super durable exterior architectural systems, there is a wide variety of coil coating paint binders that combine excellent flexibility, substrate adhesion and, depending on the grade, outstanding weatherability ("class P 4" grades show no UV-absorption).

Standard polyester coatings, at the low end of weathering resistance, can last up to six years without chalking or color fading. PVDF coatings, at the very high end of weathering resistance in terms of both performance and costs, are able to survive up to 20 years of weathering. Standard polyester systems and PVDF systems are therefore playing in different leagues, leaving a large gap between them. This gap is currently filled by some SMPs with different amounts of silicon intermediates (e.g., 5% up to 50%).

As an innovative and cost-effective alternative to those old-fashioned kind of SMP-paints, Degussa created Super Durable DYNAPOL polyester resins for exterior architectural coil coating top coats. The Super Durable DYNAPOL product line is designed to fill the gap between PVDF and standard, low-resistance polyester resins. DYNAPOL SDP's outstanding weather resistance is the base for safety and reliability when used for wall claddings, roofing, garage doors, blinds, window frames, air conditioning devices, gutters, and any other exterior application you can imagine.

Florida Test

Judge for yourself: These pictures of Florida weathering test results prove the outstanding weatherability of Super Durable DYNAPOL®. Even after 5 years in the burning sun and sweltering humidity, there is no color fading or chalking.
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