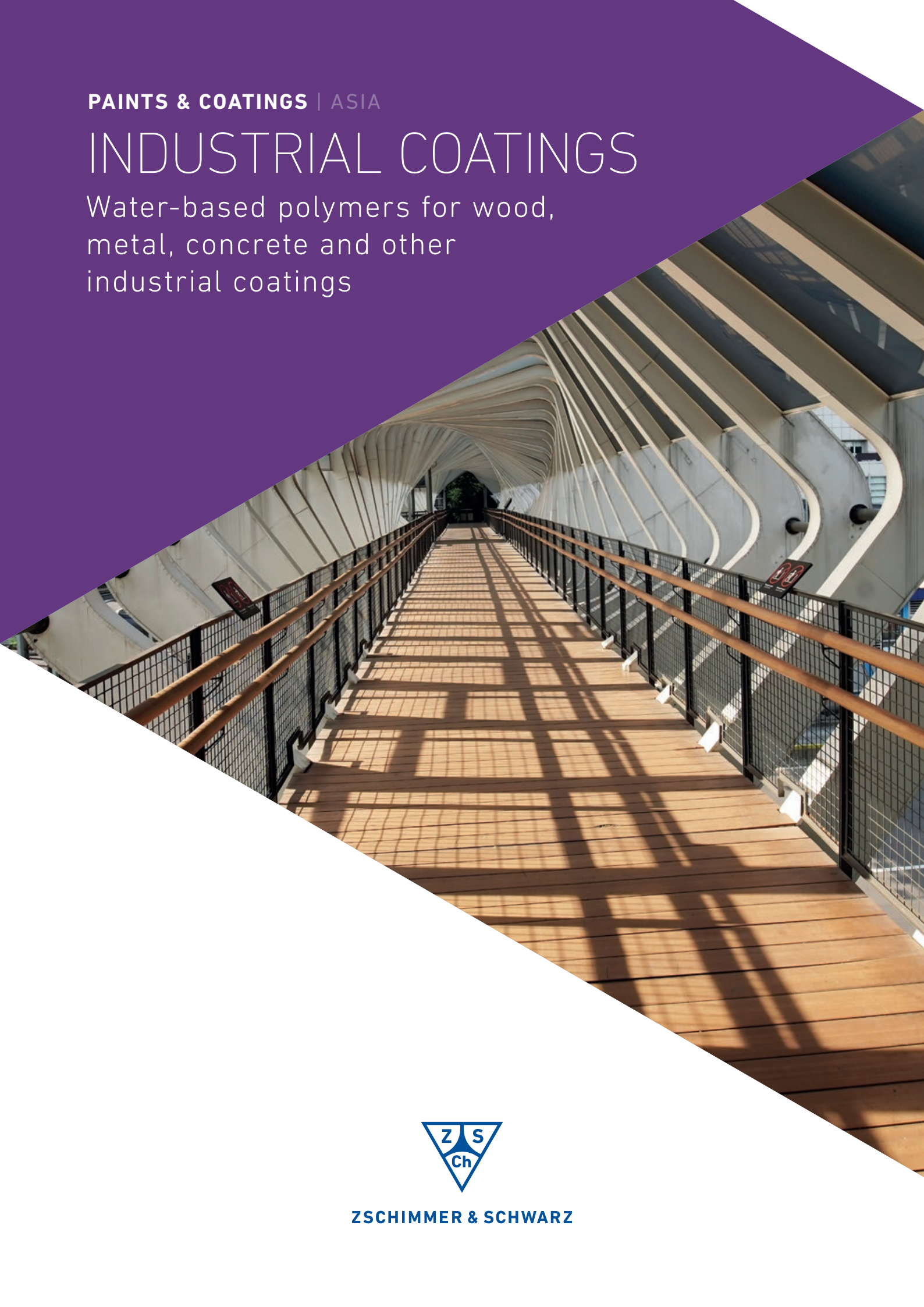


PAINTS & COATINGS | ASIA

INDUSTRIAL COATINGS

Water-based polymers for wood,
metal, concrete and other
industrial coatings



ZSCHIMMER & SCHWARZ



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CHEMISTRY TAILOR-MADE

Zschimmer & Schwarz is a global supplier of chemical auxiliaries and specialties headquartered in Lahnstein near Koblenz, Germany. The family business was founded in Chemnitz in 1894 and is positioned across industries with different business divisions.

Our core business is the development, production and supply of tailor-made chemical auxiliaries for the leather, fur, ceramic, textile and chemical fibre industries. Manufacturers of cleaning agents, personal care products, paints and coatings, lubricants and industrial applications all over the world trust in the company's chemical specialties as well.

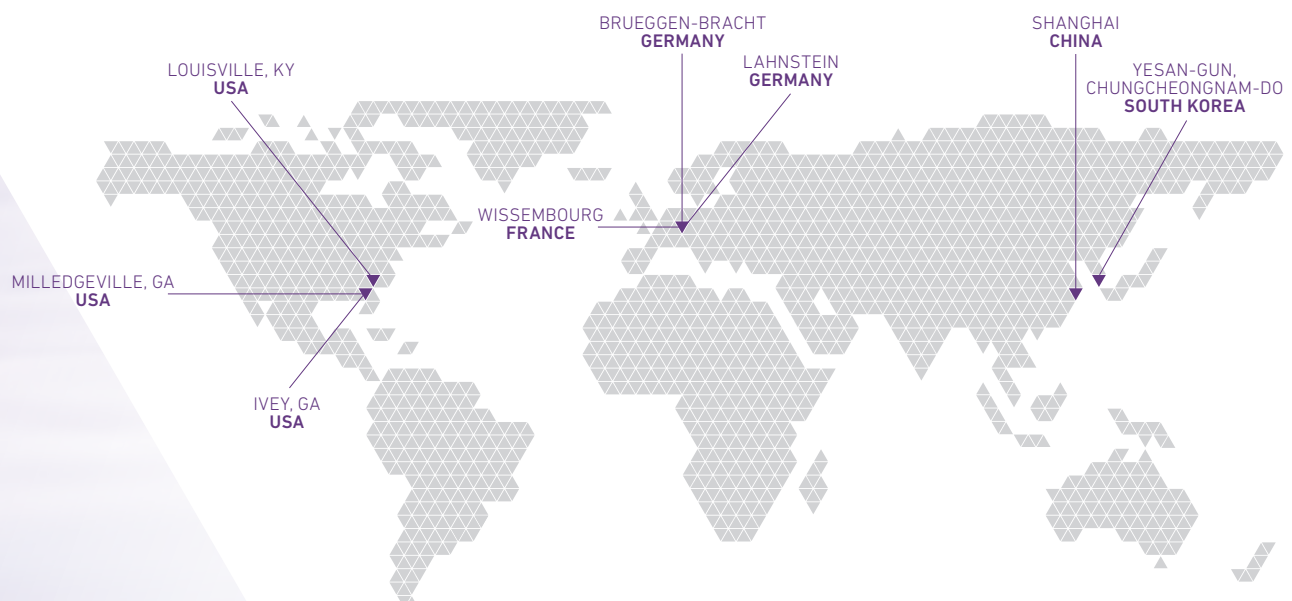
A FAMILY BUSINESS WITH A GLOBAL FORMULA FOR SUCCESS

The corporate group Zschimmer & Schwarz comprises 28 companies in 16 countries on five continents, 20 of which have their own production facilities. Our customers can always rely on a uniform quality standard worldwide and equally on the high service orientation of our local experts.

BRINGING YOUR IDEAS TO THE SURFACE

The portfolio of the Paints & Coatings Division serves a wide range of end-use applications from the industrial coatings and graphic arts sectors. We offer technologies and materials for the treatment and coating of surfaces such as wood, paper, metal, textile and concrete for best results. Innovative polymer technologies, tailored to the application and requirements of our customers, provide the necessary "plus" in the formulation. As specialists in environmentally conscious, water-based polymers, we offer optimised customer solutions with the highest standards of quality and cost-effectiveness, which we are producing at our sites in Europe, North America and Asia.

Whether it's raw materials or tailored and ready-to-use customer solutions – we will help you find the right products. We will happily accompany you on the way to your formulation in order to jointly create added value for your customer.





TECHNOLOGIES

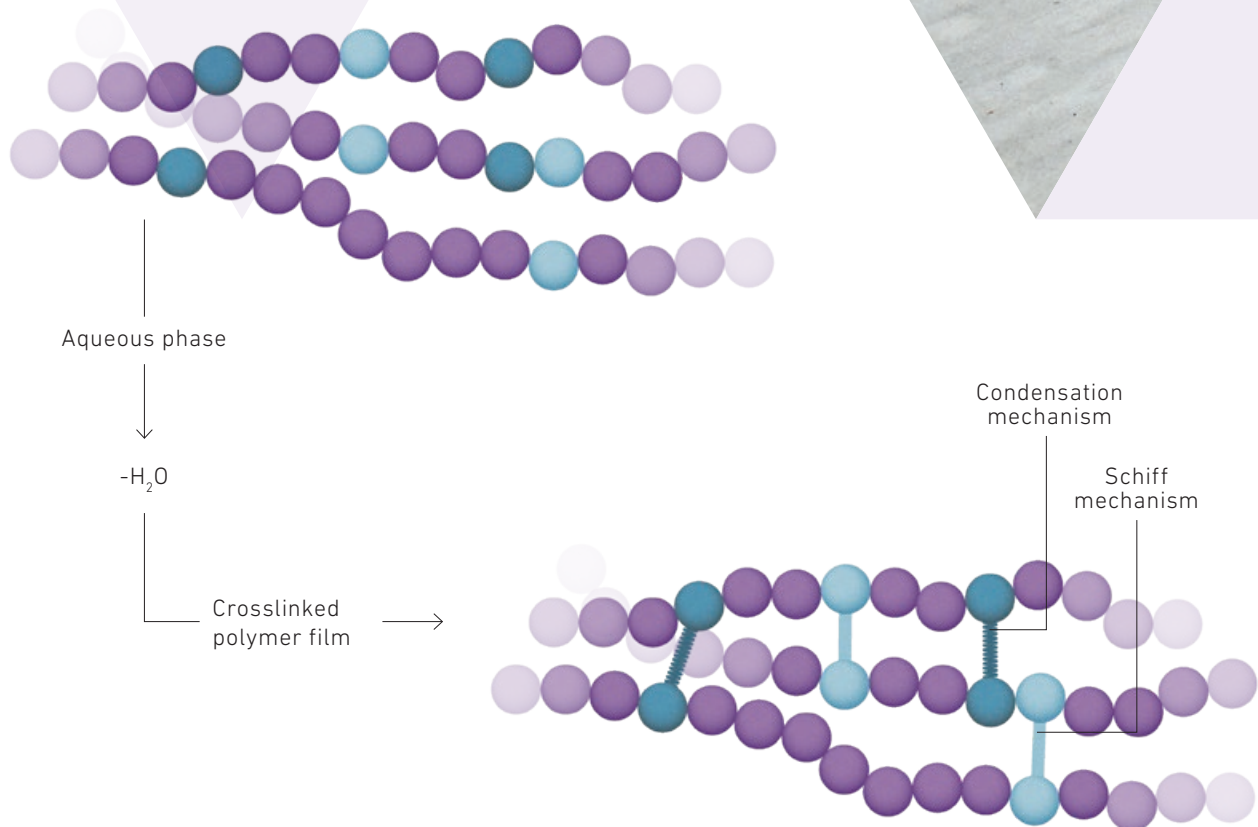
Appearance, durability, haptics: industrial substrates like wood, metal or concrete are subject to the highest demands, which can usually only be met by a high-performance coating. For formulations that meet these challenges, Zschimmer & Schwarz offers water-based polymers as universal binders and for special applications.

SELF-CROSSLINKING TECHNOLOGY

Our portfolio includes polymer dispersions with up to two crosslinking mechanisms on the same polymer backbone. The self-crosslinking of the polymers takes place only during film formation by drying at room temperature. In this way, the typical properties of a crosslinked polymer can be achieved without limiting storage stability.

FEATURES & BENEFITS

- ▶ Increased chemical resistance
- ▶ Stain resistance
- ▶ Water resistance
- ▶ Good adhesion properties
- ▶ Room-temperature curing with long-term shelf stability



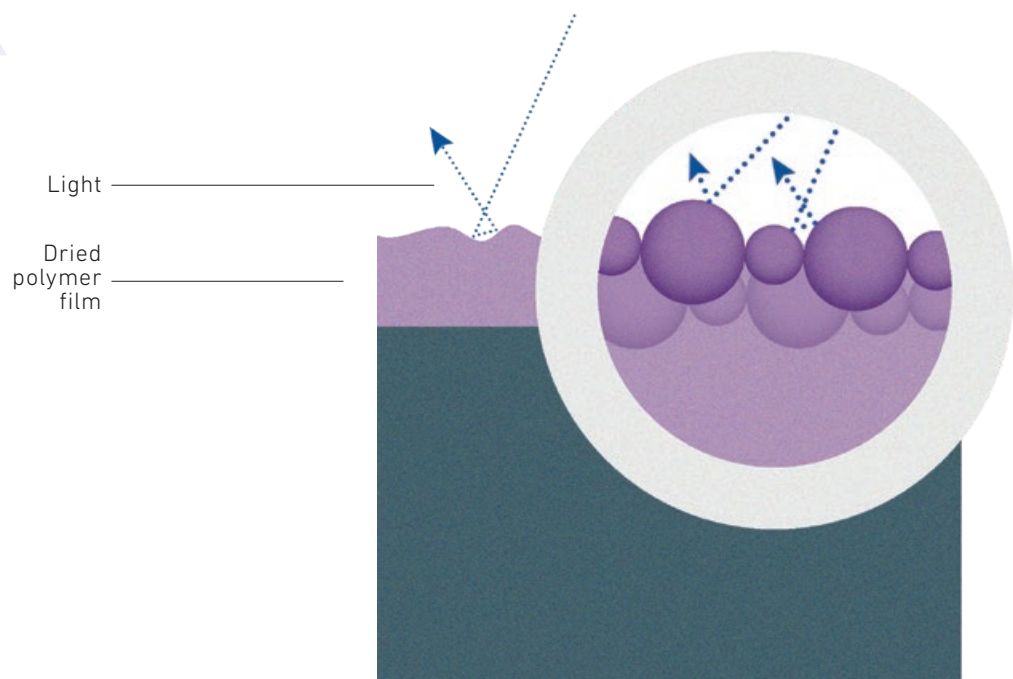
INHERENTLY MATTE TECHNOLOGY

Using a proprietary process, Zschimmer & Schwarz offers an inherently matte acrylate polymer. After drying, a film with low gloss, high flexibility and excellent stability is formed. This technology also provides excellent adhesion to various substrate types.

The polymer is a matte binder and not a “liquid matting agent”, meaning it can be formulated as a conventional (water-based) acrylic polymer, replacing the binder. It can be used as a single binder or in a blend with polyurethanes and has low foaming and low VOC requirements. The time- and labour-consuming incorporation of solid matting agents is completely eliminated, making the formulation much simpler, more stable and more economical. Unlike conventional matting agents, the matte polymer also has excellent transparency.

FEATURES & BENEFITS

- ▶ No incorporation of matting agents necessary
 - ▶ Easy to formulate
 - ▶ Stable – no settling of the polymer
 - ▶ Lower process costs
 - ▶ Excellent transparency
-

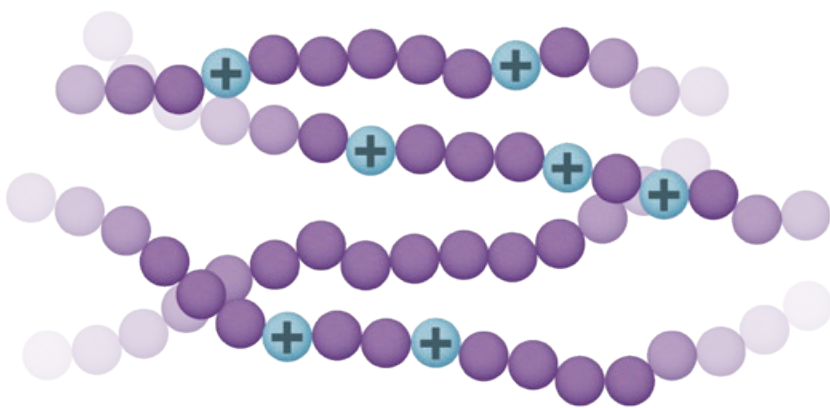


CATIONIC TECHNOLOGY

Zschimmer & Schwarz offers polycationic systems with an optimal acidic pH range and high charge density. By complexing anionic structures such as wood extractives or water-soluble soils, these products show outstanding stain blocking. Excellent adhesion to various critical anionic surfaces and metals can also be achieved by cationic resins. On porous substrates, the small particle size leads to good penetration into the substrate, which further improves adhesion and protection. These properties make these polymers especially well suited for use in isolation primers on wood.

FEATURES & BENEFITS

- ▶ Excellent adhesion to various problematic surfaces
 - ▶ Superior stain blocking
 - ▶ Forms soft to medium-hard films
 - ▶ Colourless and glossy films
 - ▶ Suitable in highly pigmented and low-VOC systems
 - ▶ Stable in acidic formulas (pH 3–6)
 - ▶ Less discolouration of wood due to low pH
-

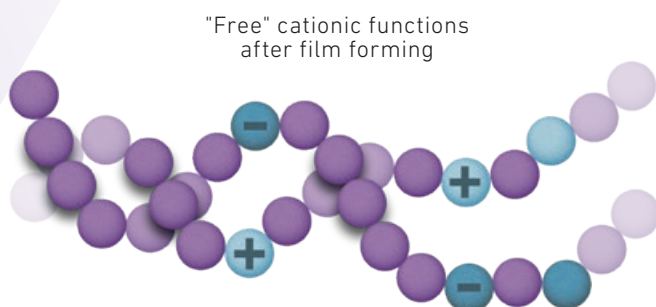
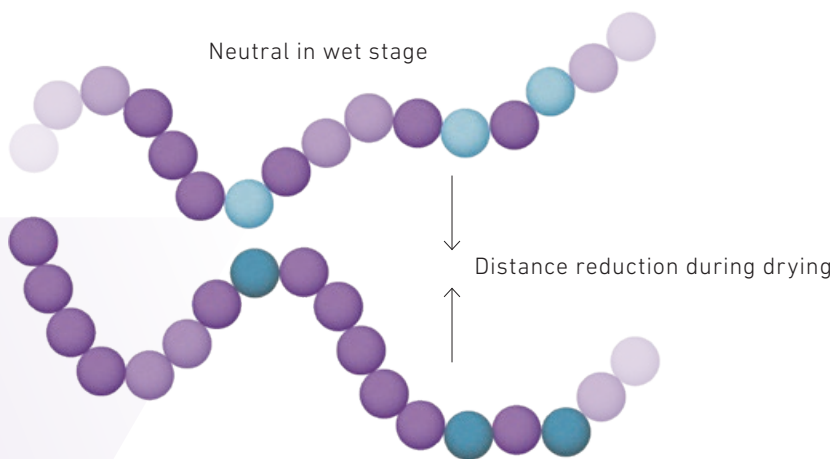


INTERPENETRATING POLYMER NETWORK (IPN)

The IPN involves two different ionic structures in the same polymer network at a neutral pH value. Overall, the polymer exhibits an anionic behaviour and can thus be formulated like an anionic polymer. Cationic functionalities then form during drying, providing excellent tannin, stain and dye blocking without the compatibility problems common to cationic polymers. Adhesion to various substrates such as aluminium, PVC or wood is also improved. At the same time, VOC requirements for the formulation remain low.

FEATURES & BENEFITS

- ▶ Enables cationic functionalities in anionic formulations
- ▶ Excellent tannin, stain and dye blocking
- ▶ Excellent adhesion to multiple substrates
- ▶ High compatibility with other resins and additives
- ▶ Low VOC requirements to formulate coatings



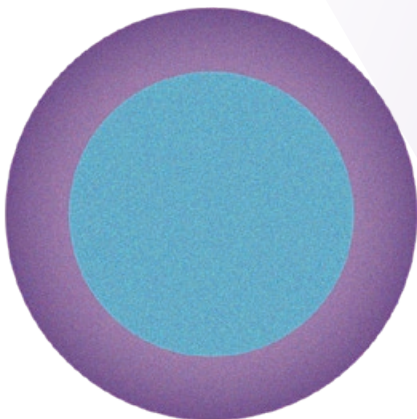
MULTIPHASE TECHNOLOGY

Using a two-step synthesis process, multiphase technology combines two different types of polymers in the same polymer network. This allows a balanced combination and thereby an overall improvement of the physical properties of the two polymers. A very good hardness and chemical resistance balanced with a moderate film-forming temperature benefits applications in the wood sector in particular. This process also means that no or only a small amount of emulsifiers is required. This helps with water resistance and the protective performance of the polymers. Metal applications additionally benefit from the possibility to keep the polarity of the overall film low by balancing the polymer phases.

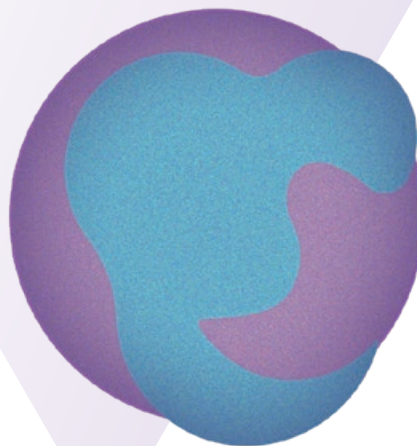
FEATURES & BENEFITS

- ▶ Very low to zero emulsifier content
 - ▶ Good balance between hardness, chemical resistance and film forming
 - ▶ Excellent adhesion to multiple substrates
 - ▶ Compliant with Swiss Ordinance for indirect food contact
-

Core-shell



Multi-lobed

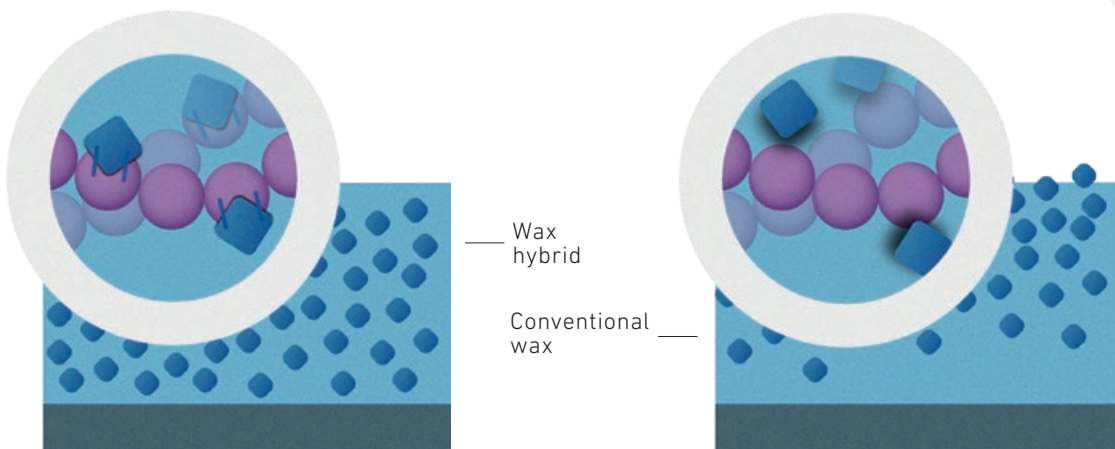


WAX-HYBRID TECHNOLOGY

Our wax-hybrid technology is a patented process for combining wax and acrylate in a single polymer network. This prevents the wax from migrating to the surface as it dries, resulting in a more uniform film composition that improves the appearance and performance of the coating. The hybrid polymer exhibits anionic behaviour and broad compatibility with other water-based polymers. The positive properties of waxes, such as increased slip or abrasion resistance and improved water resistance, can thus be optimally utilised.

FEATURES & BENEFITS

- ▶ Wax grafted to the polymer network
- ▶ Even distribution in liquid and dried form
- ▶ Enhanced wear resistance
- ▶ Improved water resistance
- ▶ Soft and flexible, good response to buffing for scratch repair and gloss
- ▶ Slip resistance



ALKALI-SOLUBLE TECHNOLOGY – RESIN SOLUTIONS

Our alkali-soluble polymers are based on polyacrylic and polymethacrylic acids with high electrostatic repulsion. They are available with different acid numbers, molar weights and glass transition temperatures as a clear solution in water.

The resin solutions offer excellent dispersibility of pigments and high compatibility and stability in various formulation types. This provides improved wetting and increased gloss of formulations. Unlike dispersing additives, these resins form a hard, water-soluble film at room temperature and are thus part of the binder. In addition, adhesion can be positively influenced on some substrates.



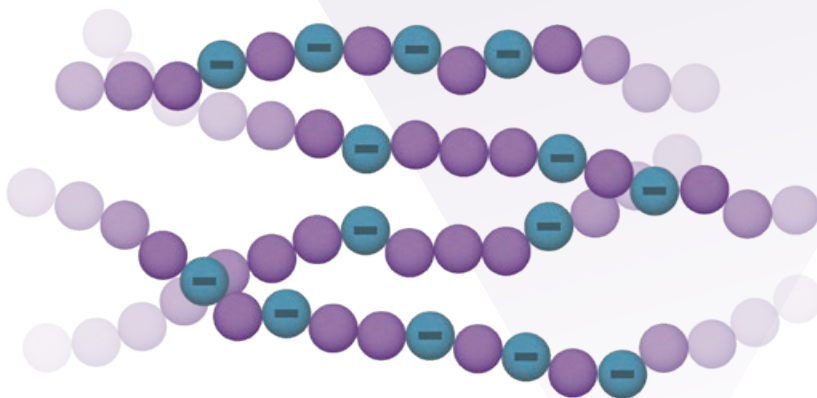
FEATURES & BENEFITS

Dispersing

- ▶ Excellent wetting and dispersibility of pigments
- ▶ High compatibility and stability in multiple formulation types
- ▶ Improves the wetting of formulations
- ▶ Improves gloss

Binding

- ▶ Formation of a hard, water-soluble film at room temperature
-





PRODUCT PORTFOLIO

WOOD COATINGS – INDUSTRIAL AND DIY

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
SYNTRAN® AC 2902	Inherently matte self-crosslinking acrylic polymer	Anionic	45	7.5	30
SYNTRAN® AC 4005	Cationic acrylic copolymer	Cationic	35	5.0	20
SYNTRAN® AC 4006	Cationic acrylic copolymer	Cationic	35	6.0	40
SYNTRAN® AC 4101	Cationic acrylic copolymer	Cationic	35	5.7	< 10
SYNTRAN® AC 5115	Multiphase acrylic copolymer	Anionic	43	7.5	20
SYNTRAN® AC 5917	Self-crosslinking multiphase acrylic polymer	Anionic	46	7.0	7
SYNTRAN® AC 5922	Self-crosslinking multiphase acrylic polymer	Anionic	44	7.0	0
SYNTRAN® AC 5923	Self-crosslinking multiphase acrylic polymer	Anionic	40	7.5	30
SYNTRAN® AC 6045	IPN acrylic polymer	Anionic	41	7.5	8
SYNTRAN® AC 6130	IPN acrylic copolymer	Anionic	40	8.8	52
SYNTRAN® AC 7016	Alkali-soluble acrylic copolymer	Anionic	39	5.5	20

FEATURES & BENEFITS

	TOPCOATS/MULTILAYER	PRIMER/BASECOATS	ISOLATION PRIMER	JOINERY	OUTDOOR	FLOORS	FURNITURE
Very low- to satin-gloss lacquers with excellent water and blocking resistance, high transparency on dark substrates, excellent grain wetting and appearance on wood, excellent adhesion to multiple substrates, single binder or combination partner for inherently matte polyurethanes, non-matte PUDs and acrylic polymers, very low grain raise	▲	▲		▲	▲	▲	▲
Excellent universal stain-blocking properties: tannin, dye, nicotine, generally water-soluble ingredients; excellent adhesion			▲	▲		▲	▲
Excellent universal stain-blocking properties for water-soluble wood extractives, nicotine and dyes, excellent adhesion, fast drying			▲			▲	▲
Excellent universal stain-blocking properties: tannin, dye, nicotine, generally water-soluble ingredients; excellent adhesion			▲	▲		▲	▲
Good tannin, stain and dye blocking, excellent adhesion to various substrates, fast drying, mixable with water-based alkyds		▲	▲				▲
Coatings for joinery, excellent outdoor and blocking resistance, extremely low water absorption, excellent transparency at high film thickness, good adhesion, fast drying, combination partner for hard acrylics to reduce the MFFT, combination partner for PUDs for exterior applications	▲	▲		▲	▲		▲
For decorative interior and exterior coatings with very low VOC content, high and low build stains and impregnations, low water absorption, good block resistance and exterior durability, excellent penetration into the wood substrate, good adhesion, excellent pigment wetting, combination partner for harder acrylics to improve adhesion and flexibility and to reduce the MFFT, combination partner for PUDs	▲	▲		▲	▲		▲
Coatings with excellent stain resistance (red wine, coffee, mustard) in white pigmented coatings (industrial and decorative), very good alcohol resistance; it forms very hard and scratch-resistant but also flexible films with high to medium gloss and good sandability; combination partner for PUDs, no impairment of the clarity of PUDs, easy to formulate	▲	▲		▲	▲	▲	▲
Very good tannin, stain and dye blocking, excellent adhesion to multiple substrates, good water resistance and drying, easy to formulate, for very low-VOC formulations, suitable also for flexible substrates (e.g. textile) and for outdoor-resistant primers			▲	▲	▲	▲	▲
Excellent adhesion, hardness and scratch resistance, very good water and grease resistance, good resistance to coffee and red wine in white coatings, clear when wet, reddish colour on wood in clear coatings, blending partner to SYNTRAN® AC 5922	▲			▲		▲	▲
Clear and pigmented primers for roller coater and spray applications, wood stains, insulating coatings, adhesion primers under UV systems; very good insulation of water-soluble substances, excellent water resistance and good oil resistance		▲	▲		▲	▲	▲

▲ = Highly recommended ▲ = Recommended

PRODUCT PORTFOLIO

WOOD COATINGS – INDUSTRIAL AND DIY

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
SYNTRAN® AC 7018	Alkali-soluble acrylic copolymer	Anionic	25	8.0	0
SYNTRAN® AC 9034	Self-crosslinking acrylic polymer	Anionic	40	7.8	50
SYNTRAN® AC 9131	Self-crosslinking acrylic polymer	Anionic	42	7.2	15
SYNTRAN® APU 1602	Acrylic modified aliphatic polyurethane dispersion	Anionic	39	8.0	12

METAL COATINGS

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
SYNTRAN® AC 1106	Acrylic copolymer	Anionic	21	8.0	N/A
SYNTRAN® AC 4005	Cationic acrylic copolymer	Cationic	35	5.0	20
SYNTRAN® AC 4006	Cationic acrylic copolymer	Cationic	35	6.0	40
SYNTRAN® AC 5923	Self-crosslinking multiphase acrylic polymer	Anionic	40	7.5	30
SYNTRAN® AC 7080	Acrylic polymer solution	Anionic	40	2.2	N/A
SYNTRAN® PU 1102	Polycarbonate-type polyurethane dispersion with NMP	Anionic	32	7.5	N/A
SYNTRAN® PU 1115	Polycarbonate-type polyurethane dispersion with NMP	Anionic	32	7.5	N/A
SYNTRAN® PU 6115	Polyester-type polyurethane dispersion with NMP	Anionic	32	7.5	N/A

FEATURES & BENEFITS

	TOPCOATS/MULTILAYER	PRIMER/BASECOATS	ISOLATION PRIMER	JOINERY	OUTDOOR	FLOORS	FURNITURE
Highly transparent wood stains and primers for industrial applications for room temperature and forced drying, excellent film clarity and compatibility with dyes and pigment preparations, well dilutable with alcohols		▲			▲	▲	▲
General-purpose acrylic polymer, excellent early and final water resistance, good chemical resistance, dry heat resistance and hardness, light colour on "dark oak"	▲	▲				▲	▲
Self-crosslinking, excellent alkali and water submersion resistance, excellent adhesion to multiple substrates; film has very high gloss and flexibility; zero VOC requirements to formulate coating		▲			▲		▲
Excellent abrasion and good chemical resistance with suitability for 1K parquet coatings, highly compatible with other acrylic polymers and can be used as sole binder or in combination with other acrylic binders to improve abrasion resistance, very good combination partner to acrylic matte polymers with low increase in gloss level	▲	▲		▲		▲	▲

FEATURES & BENEFITS

	PRIMER	TOPCOAT	DIRECT TO METAL (DTM)	THIN ORGANIC COATING (STEEL)	THIN ORGANIC COATING (ALUMINIUM)	SEALER
Good adhesion, excellent water resistance and corrosion resistance				▲		▲
Good adhesion, good hardness and good compatibility with cationic PUDs and some metal salts or other low-PH ingredients for metal passivation				▲		
Good adhesion, harder than SYNTRAN® AC 4005, good compatibility with cationic PUDs and some metal salts or other low-PH ingredients for metal passivation				▲		
Easy to formulate, excellent compatibility with pigment pastes, very hard and scratch-resistant but also flexible films, high- to medium-gloss formulations, very good adhesion to different metals		▲	▲			
Surfactant-free with outstanding binding effect on metal, very good chemical resistance including diesel and E10 fuel, can also be used to formulate a rust converter	▲		▲		▲	
One-component aliphatic polyurethane, use in cold-rolled sheet (EG, GL), good chemical resistance, high gloss and excellent weather durability				▲		
One-component aliphatic polyurethane, use in cold-rolled sheet (EG, GL) and functional plastics like polycarbonate, good chemical resistance, high gloss and excellent weather durability				▲		
One-component aliphatic polyurethane dispersion with excellent corrosion resistance on cold-rolled sheet (EG, GL), good adhesion, high gloss and weatherability as well as excellent compatibility with additives				▲		

▲ = Highly recommended ▲ = Recommended

PRODUCT PORTFOLIO

METAL COATINGS

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
SYNTRAN® PUC 1311	Polycarbonate-type polyurethane dispersion with DMAC	Cationic	27	5.5	N/A
SYNTRAN® PUC 3225	Polyether-type polyurethane dispersion with DMF	Cationic	27	5.5	N/A
SYNTRAN® PUC 6224	Polyester-type polyurethane dispersion with DMF	Cationic	27	5.5	N/A
SYNTRAN® PUC 6225	Polyester-type polyurethane dispersion with DMF	Cationic	27	5.5	N/A
SYNTRAN® PUC 9202	Polyester- / Polyether-type polyurethane dispersion with DMF	Cationic	27	5.5	N/A

CONCRETE COATINGS

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
SYNTRAN® AC 6130	IPN acrylic copolymer	Anionic	40	8.8	52
SYNTRAN® AC 9120	Self-crosslinking acrylic polymer	Anionic	43	7.0	45
SYNTRAN® AC 9131	Self-crosslinking acrylic polymer	Anionic	42	7.2	15

FEATURES & BENEFITS

PRIMER
TOPCOAT
DIRECT TO METAL (DTM)
THIN ORGANIC COATING (STEEL)
THIN ORGANIC COATING (ALUMINIUM)
SEALER

One-component DMAC-based aliphatic polyurethane, low molecular weight, excellent compatibility with inorganic additives, good flexibility, good adhesion on cold-rolled sheet



Cationic one-component polyether-type aliphatic polyurethane dispersion, excellent corrosion resistance on cold-rolled sheet, good compatibility with additives, self-emulsified dispersion, can be used together with cationic acrylic on steel coil



One-component aliphatic polyurethane, excellent corrosion resistance, good compatibility with inorganic ingredients, suitable for GI passivation application



One-component aliphatic polyurethane, excellent corrosion resistance, good compatibility with inorganic ingredients, suitable for GI passivation application



One-component aliphatic polyurethane, low molecular weight, excellent compatibility with inorganic additives, excellent compatibility with our cationic acrylic emulsions



FEATURES & BENEFITS

PRIMER
TOPCOAT
SEALER & DECORATIVE
MASONRY
POOLDECKS
MORTAR MODIFICATION

Excellent solvent resistance and abrasion resistance, fast drying, high crosslinking density, improved compatibility, low solvent demand



Self-crosslinking, excellent household stain resistance, outstanding hot tire and Betadine resistance, excellent water submersion resistance, very hard and high-gloss film with good printability, low VOC requirements to formulate coating



Self-crosslinking, excellent household stain resistance, small particle size for deep penetration into concrete, excellent water submersion resistance, excellent adhesion to multiple substrates; film has very high gloss; zero VOC requirements to formulate coating



▲ = Highly recommended ▲ = Recommended

PRODUCT PORTFOLIO

ARCHITECTURAL COATINGS

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
SYNTRAN® AC 4005	Cationic acrylic copolymer	Cationic	35	5.0	20
SYNTRAN® AC 4101	Cationic acrylic copolymer	Cationic	35	5.7	< 10
SYNTRAN® AC 6045	IPN acrylic polymer	Anionic	41	7.5	8

PLASTIC COATINGS

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
SYNTRAN® AC 1072	Acrylic polymer	Anionic	30	9.5	10
SYNTRAN® AC 1110	Acrylic copolymer	Anionic	45	8.5	< 0
SYNTRAN® AC 5923	Self-crosslinking multiphase acrylic polymer	Anionic	40	7.5	30

ADDITIVES

PRODUCT	PRODUCT DESCRIPTION	IONICITY	SOLID APPROX. [%]	pH	MFFT [°C]
WAXES					
SYNTRAN® WA 1001	Hard polyethylene wax emulsion	Nonionic / anionic	35	9.5	N/A
SYNTRAN® WA 1065	Wax-hybrid acrylic	Nonionic / anionic	38	9.1	35
GRINDING RESINS					
SYNTRAN® DR 7060	Alkali-soluble acrylic polymer	Anionic	25	7.0	70
SYNTRAN® DR 7101	Alkali-soluble acrylic polymer	Anionic	30	7.0	70

FEATURES & BENEFITS

ROOFING
ISOLATION PRIMER

Excellent universal stain-blocking properties: tannin, dye, nicotine, generally water-soluble ingredients; excellent adhesion



Excellent universal stain-blocking properties: tannin, dye, nicotine, generally water-soluble ingredients; excellent adhesion



Excellent anti-migration properties, especially for use in white roof coatings, excellent adhesion to multiple substrates, good water resistance and drying, easy to formulate, for very low-VOC primers



FEATURES & BENEFITS

RUBBER COATINGS
RIGID PLASTICS

High gloss, very high flexibility, good adhesion, good water resistance, can be used for leather and glove coatings



Good levelling, good adhesion and flexibility, for glove coatings



Easy to formulate, excellent compatibility with pigment pastes, very hard and scratch-resistant but also flexible films, high- to medium-gloss formulations, very good adhesion to ABS



FEATURES & BENEFITS

Hard and high melting polyethylene wax emulsion; melting range 122–139 °C. Abrasion and scratch resistance, anti-blocking. It can improve the friction resistance and anti-blocking properties of the surface.

Patented acrylic olefin graft technology. This unique incorporation of olefin onto the backbone of the acrylic provides a high coefficient of static friction, slip resistance, burnishing resistance and UV stability (non-yellowing).

Polymeric surfactant technology designed to provide excellent wetting and incorporation of pigments or additives into water-based coatings. Used as a grinding resin in pigment dispersions, it improves colour development of organic pigments and carbon black.

Polymeric surfactant technology designed to improve dispersibility and colour development of water-based pigment concentrates and coatings and can be used for both inorganic and organic pigment dispersions. Used as a grinding resin, it shows excellent rheology control and storage stability with multiple pigment types. Compliant with Swiss Ordinance and FDA for indirect food contact.



Chemistry tailor-made

▶ ASIA

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