

Textile Water & Oil Repellence



Textile Fluorine Free Water Repellence

HEXAFOR®
& HYDROSIN®



TEXTILE WATER & OIL REPELLENCE

PRODUCT OVERVIEW:

Hexafor® fluoropolymers specifically designed to impart durable water repellence (DWR) effect, oil repellence and stain release properties to various kind of fabrics. These polymers are suitable for both textiles and nonwoven materials as high-performance outdoor equipment and work-clothes. Once properly applied they do not interfere neither with the original breathability or with the softness of the fabrics. All of our C6 Hexafor® fluoropolymers are Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) free.

PROPERTIES:

- Excellent water- and oil- repellence
- Solvent repellence
- Durable water repellence (DWR) effect
- Stain and soil release
- Easy to clean properties
- Resistant to dry cleaning and abrasion
- The original appearance of the finishes does not change
- Compatible with many other bath auxiliaries
- Possibility of low temperature curing grade polymer
- Nonwoven barrier performance for medical, filtration and automotive applications
- PFOA content below limit of detection (cannot break into PFOA)
- OEKO-TEX® Standard 100 compliant when used according to technical data sheet

PRODUCTS	IONOGENITY	ACTIVE SUBSTANCE	CHEMICAL DESCRIPTION	FEATURES & BENEFITS
HEXAFOR® T-62	Weakly cationic	32%	(Meth)acrylic polymer in water	Finishing product for extremely durable water- and oil- repellent treatment of textiles made of synthetic and cellulosic fibres (especially for cotton, polyester and their blends).
HEXAFOR® T-63	Non-ionic	28%	(Meth)acrylic polymer in water	It provides an excellent water- and oil- repellence, as well as stain and chemical resistance. It is compatible with various crosslinking agents, catalysts, softeners and other textile auxiliaries. It is specifically designed for technical textile and for wood. Due to the low temperatures required during the application, it is suitable for PP and its mixtures. It does not change the stiffness of polyester fibres. It also protects the fibre colours.
HEXAFOR® T-68	Weakly cationic	30%	Acrylic polymer in water	Finishing product for extremely durable water- and oil- repellent treatment of textiles made of synthetic and cellulosic fibres (especially for cotton, polyester and their blends).
HEXAFOR® T-70	Weakly cationic	29%	(Meth)acrylic polymer in water	Highly efficient finishing product for durable water- and oil- repellent treatment of textiles made of cellulose, synthetic fibres and their blends. The best performances are achieved on cotton textiles.
HEXAFOR® T-08F	Weakly cationic	27%	(Meth)acrylic polymer in water	Finishing product for extremely durable water- and oil- repellent treatment of textiles made of synthetic and cellulosic fibres. In particular, it has an excellent resistance to washing.

TEXTILE FLUORINE-FREE WATER REPELLENCE

PRODUCT OVERVIEW:

Hydrosin® fluorine-free polymers specifically designed for textile applications. They provide durable water repellence (DWR) effect and stain release properties to the treated materials. They do not contain neither PFC, PFOA, PFOS, APEO or organotin compounds.

PROPERTIES:

- Excellent water repellence
- Durable water repellence (DWR) effect
- Easy to clean properties
- Resistant to dry cleaning and abrasion
- The original appearance of the finishes does not change
- Compatible with many other bath auxiliaries
- Possibility of low temperature curing grade polymer
- OEKO-TEX® Standard 100 compliant when used according to technical data sheet

PRODUCTS	IONOGENITY	ACTIVE SUBSTANCE	CHEMICAL DESCRIPTION	FEATURES & BENEFITS
HYDROSIN® NF-01	Weakly cationic	25%	Dispersion of fat-modified chemicals and paraffin	Fluorine-free hydrophobic agent that imparts water repellence and rainproof finishing on various cellulosic fibres and their blends with synthetic based fibres. Biodegradable > 90% (28d, DOC decrease). Method: OECD Test Guideline 302B.
HYDROSIN® NF-02	Weakly cationic	21%	Dispersion of fat-modified chemicals and paraffin	Fluorine-free hydrophobic agent that imparts water repellence and rainproof finishing on various cellulosic fibres and their blends with synthetic based fibres. It is compatible with various crosslinking agents, catalysts, softeners and other textile auxiliaries. Biodegradable 98% (28d, DOC decrease). Method: OECD Test Guideline 302B.
HYDROSIN® NF-16	Weakly cationic	34%	Polymeric compound	Fluorine-free water-based polymer emulsion. It imparts water repellence to textiles and nonwovens. It resists to washing and to dry cleaning.
HYDROSIN® NF-18	Weakly cationic	>30%	Polymeric emulsion	Fluorine-free water-based polymer emulsion. It imparts water repellence to textiles and nonwovens. It resists to washing and to dry cleaning if used in combination with booster crosslinker as Hydrosin® NF-08.

CROSSLINKERS BLOCKED POLY-ISOCYANATE

PRODUCT OVERVIEW:

Hydrosin® fluorine-free blocked isocyanate. They can be used as crosslinking agents for various coating applications that require heat-curing cycles. Applications include increased durable water repellent (DWR) effect and soil release properties. The durability and the adhesion of coatings are also improved. All of our Hydrosin® blocked-isocyanate polymers are formaldehyde-free.

PROPERTIES:

- Improve the durable water repellence (DWR) effect
- Improve the soil release properties on textiles and leather
- Improve the resistance to chemical and environmental attack
- Improve the durability of coatings and adhesives in aqueous-pad applications
- Enhance the lamination and the adhesion of coatings
- Improve the resistance to blood and saline penetration in woven and nonwoven fabrics
- Require heat-curing cycles

PRODUCTS	IONOGENITY	ACTIVE SUBSTANCE	CHEMICAL DESCRIPTION	FEATURES & BENEFITS
HYDROSIN® NF-06	Non-ionic	40%	Blocked isocyanate in water	Water-based stabilized crosslinking agent. It can be used in the curing of all polyurethane and acrylic dispersions to improve their chemical and physical resistance. It provides a durable and transparent treatment when applied on textile fibres. It does not change the original appearance of the treated materials.
HYDROSIN® NF-08	Non-ionic	39%	Blocked isocyanate in water	Water-based and MEKO-free stabilized crosslinking agent. It improves the water- and oil- repellence effect of fluorocarbon textile products. It can be used in the curing of all polyurethane and acrylic dispersion to improve their chemical and physical resistance. It provides a durable and transparent treatment when applied on textile fibres. It does not change the original appearance of the treated materials.

CROSSLINKERS POLY-CARBODIIMIDE

PRODUCT OVERVIEW:

Hydrosin® fluorine-free carbodiimide crosslinkers. They are an excellent alternative for more hazardous isocyanate and aziridine crosslinkers. They react with COOH groups (in acrylic and polyurethane polymers) forming the so-called "interpenetrating network" with the polymeric binder. The result is a dense network that improves the resistance performances of the coating against cleaning liquids and prevents sun cream lotions, food and chemicals stains.

PROPERTIES:

- Increase strength and hardness
- Improve abrasion and chemical resistance
- Improve the resistance to hydrolysis
- Increase the adhesion to substrates
- Improve products pot-life
- Not moisture sensitive
- Fast curing speed

PRODUCTS	IONOGENITY	ACTIVE SUBSTANCE	CHEMICAL DESCRIPTION	FEATURES & BENEFITS
HYDROSIN® NF-12	Non-ionic	100%	Poly-carbodiimide	Fluorine-free polymeric multifunctional carbodiimide. It is a crosslinking agent for dispersions and emulsions of aqueous polymers containing carboxyl groups.
HYDROSIN® NF-15	Non-ionic	30%	Poly-carbodiimide	Fluorine-free polymeric multifunctional carbodiimide. It is a crosslinking agent for room temperature curing. It can be added to dispersions of polyurethane and acrylic polymers to enhance their performances.





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