



LEATHER AND TEXTILE
PROTECTORS



LEATHER AND TEXTILE PROTECTORS LINEPLUS



Lineplus leather and textile protectors are fluorinated polymer finishing agents which provide water/oil repellency and stain/chemical resistance.

- Excellent water/oil repellency;
- High resistant to wash;
- Soil-release effect;
- Active stain repellency;
- Resistant to dry cleaning;
- Resistant to abrasion;
- Compatible with additives (wet agents, extenders, resins...);
- Not change the original appearance of the finishes.

PRODUCTS	Description	Solid %	Solvent	Ionic Nature	Density g/cm ³ (25 °C)	pH	Dosage	Solubility	Applications	Advantages
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LINEPLUS TEXTILE										
LINEPLUS T-11	(meth)acrylic	31,0 - 34,0	Water	Weakly Cationic	1,08	3,0 - 5,0 (5% in water)	15 - 70 g/l	Water	Textile Low cure profile	Finishing product for extremely durable water and oil repellent finishing of textiles made of synthetic and cellulosic fibres. It displays low sensitivity to residues on the goods and a very good low curing performance.
LINEPLUS T-19	(meth)acrylic polyurethane	28,0 - 31,0	Water	Cationic	1,05	3,5 - 4,5 (5% in water)	5 - 60 g/l	Water	Textile Cotton and mix	Economical highly efficient finishing product for durable oil and water repellent finishes on textiles made from cellulosic as well as synthetic fibers and their blends. It displays low sensitivity to residues on the goods and can be combined with a lot of other chemicals.
LINEPLUS T-20	(meth)acrylic	31,5 - 34,0	Water	Weakly Cationic	1,05	3,0 - 5,0 (5% in water)	15 - 70 g/l	Water	Textile Highly concentrated Universal	Finishing product for extremely durable water and oil repellent finishing of textiles made of synthetic and cellulosic fibres. It displays low sensitivity to residues on the goods and a very good low curing performance on cotton, polyester and their blends. It displays low sensitivity to residues on the goods and a very good low curing performance.
LINEPLUS T-21	(meth)acrylic polyurethane	33,0 - 37,0	Water	Weakly Cationic	1,09	3,0 - 5,0 (5% in water)	15-70 g/l	Water	Textile High durability Universal	Finishing product for extremely durable water and oil repellent finishing of textiles made of synthetic and cellulosic fibres, especially cotton, polyamide and their blends. Crosslinker inside.
LINEPLUS T-23	(meth)acrylic	22,0 - 24,0	Water	Weakly Cationic	1,07	4,0 - 6,0 (5% in water)	25 - 120 g/l	Water	Textile Soil Release	Fluorinated polymer that gives all kind of fibers a very good soil release and oil repellent finishing. It displays low sensitivity to residue on the goods and an improved viscosity.
LINEPLUS T-30	(meth)acrylic polyurethane	28,0 - 31,0	Water	Weakly Cationic	1,07	3,0 - 5,0 (5% in water)	5 - 30 g/l	Water	Textile High durability High spray rating Universal	Fluorinated polymer that provides excellent water and oil repellency, stain and chemical resistance. Specifically designed for synthetic fabrics.
LINEPLUS T-37	(meth)acrylic	32,0 - 35,0	Water	Non ionic	1,05	3,0 - 4,5 (5% in water)	5 - 80 g/l	Water	Textile Universal	Fluorinated polymer that provides excellent water and oil repellency, stain and chemical resistance. Excellent for PP technical textile it does not change the stiffness of polyester fibers. Protects colours.

LINEPLUS UNIVERSAL										
LINEPLUS PDM 180	(meth)acrylic	24,0 - 26,0	Butyl Acetate	-	0,96	-	5 - 10 %	Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene, Dipropylenglycol Monomethylether, 2-propanol.	Leather Textile	Finishing product for extremely durable water and oil repellent finishing of leather and or textile.
LINEPLUS PDM 280	pure methacrylic	24,0 - 26,0	Butyl Acetate	-	0,95	-	5 - 10 %	Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene.	Leather Textile	Finishing product for extremely durable water and oil repellent finishing of leather and or textile. Higher UV resistance.
LINEPLUS PDM 185	(meth)acrylic	24,0 - 26,0	Butyl Acetate	-	0,96	-	5 - 10 %	Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene.	Leather Textile	Finishing product for extremely durable water and oil repellent finishing of leather and or textile.

LEATHER AND TEXTILE PROTECTORS HEXA FOR



Hexafor leather and textile protectors are fluorinated polymer finishing agents with short perfluorinated (C₆) chains. They provide water/oil repellency and stain/chemical resistance.

- Cannot break down into PFOA, PFOA content below limit of detection;
- Excellent water/oil repellency;
- High resistant to wash;
- Soil-release effect;
- Active stain repellency;
- Resistant to dry cleaning;
- Resistant to abrasion;
- Compatible with additives (wet agents, extenders, resins...);
- Not change the original appearance of the finishes.

PRODUCTS	Description	Solid %	Solvent	Ionic Nature	Density g/cm ³ (25 °C)	pH	Dosage	Solubility	Applications	Advantages
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HEXA FOR TEXTILE

HEXA FOR T-62	(meth)acrylic polyurethane	29,5 – 32,5	Water	Weakly Cationic	1,1	3,0 – 5,0 (5% in water)	15 - 70 g/l	Water	Textile High durability Universal	Finishing product for extremely durable water and oil repellent finishing of textiles made of synthetic and cellulosic fibres, especially cotton, polyester and their blends. It on the goods and very good effectiveness after laundering and air drying displays low sensitivity to residues. Targeted below LOD for PFOA.
HEXA FOR T-63	(meth)acrylic	27,0 - 29,0	Water	Non ionic	1,1	3,0 – 5,0 (5% in water)	10 - 70 g/l	Water	Textile Similar or better than C ₈ Universal	Fluorinated polymer that provides excellent water and oil repellency, stain and chemical resistance. Excellent for PP technical textile it does not change the stiffness of polyester fibers. Protects colours. Targeted below LOD for PFOA.
HEXA FOR T-65	acrylic	23,5 - 26,5	Water	Non ionic	1,1	4,0 – 6,0 (5% in water)	40 - 120 g/l	Water	Soil-Release	Water-based fluorinated polymer emulsion synthesized only with short perfluorinated (C ₆) chains that supplies a durable and transparent treatment to Textile finishes. It provides chemical resistance and is a good soil release agent against oily stains. Targeted below LOD for PFOA.
HEXA FOR T-70	(meth)acrylic	27,0 - 30,0	Water	Weakly Cationic	1,05	4,0 – 6,0 (5% in water)	15 - 70 g/l	Water	Textile	Economical highly efficient finishing product for durable oil and water repellent finishes on textiles made from cellulosic as well as synthetic fibers and their blends. It displays low sensitivity to residues on the goods and can be combined with a lot of other chemicals. High performance on cotton. Targeted below LOD for PFOA.

HEXA FOR LEATHER

HEXA FOR L-104	(meth)acrylic polyurethane	23,0 - 25,0	Water	Non ionic	1,1	5,0 - 6,5 (5% in water)	5 - 15% leather 0,5 - 2% Carpet	Water	Carpet Leather	It is a finishing product for soil, water and oil repellent finishing of carpets made of polyamide, polyester and their blends with wool. Used also for the protection of leather. It is stable miscible with stain-blocking agents and displays low sensitivity to residues on the goods. Targeted below LOD for PFOA.
HEXA FOR L-106	(meth)acrylic	27,0 - 29,0	Water	Non ionic	1,1	3,0 – 5,0 (5% in water)	5 - 15%	Water	Leather	Water-based fluorinated polymer that supplies a durable and transparent surface treatment with optimal protecting barrier against olive oil, water, coffee, oil, ketchup, wine, etc. on outerwear, footwear, gloves and accessories. The treated surfaces are easy cleanable. Targeted below LOD for PFOA.
HEXA FOR L-107	(meth)acrylic polyurethane	29,5 - 32,5	Water	Weakly Cationic	1,1	3,0 – 5,0 (5% in water)	5 - 15%	Water	Leather	Water-based fluorinated polymer that supplies a durable and transparent surface treatment with optimal protecting barrier against olive oil, water, coffee, oil, ketchup, wine, etc. on outerwear, footwear, gloves and accessories. The treated surfaces are easy cleanable. Targeted below LOD for PFOA.

HEXA FOR UNIVERSAL

HEXA FOR 6280	pure methacrylic	24,0 - 26,0	Butyl Acetate	-	0,95	-	5 - 10 %	Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene, Dipropylenglycol, monomethylether, 2-propanol.	Leather Textile	Finishing product for extremely durable water and oil repellent finishing of Leather and or Textile. Higher UV resistance. Targeted below LOD for PFOA.
HEXA FOR 6282	pure methacrylic	24,0 - 26,0	DPM Metyl D72	-	0,92	-	5 - 10 %	Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene, Dipropylenglycol, monomethylether, 2-propanol.	Leather Textile	Finishing product for extremely durable water and oil repellent finishing of Leather and or Textile. Higher UV resistance. Targeted below LOD for PFOA. High Flash point (> 70 °C). Low odor.

SUSTAINABLE DEVELOPMENT IN TOUCH WITH THE FUTURE

MAFLON® Environmental Policy

The need for really sustainable solutions for 21st century life is one of the most critical and important challenges facing the global community.

At MAFLON®, sustainable development does not just mean being an environmentally friendly company, but also taking care of human beings safety.

Over the past decade (since 2000), there has been increasing concern about products that contain long-chain perfluorinated chemicals (LCPFs) and various actions have been undertaken to minimize the potential impact of these chemicals on human health and on the environment, especially related to PFOA and PFOS.

Both these chemicals are thought to be persistent in the environment, bioaccumulative and potentially toxic.

MAFLON® uses neither Perfluorooctanoic acid (PFOA) nor PFOS intentionally during its manufacturing processes.

Moreover all MAFLON® repellents and surfactants are telomere-based (refer to MAFLON® Scientific Approach) and cannot therefore contain or produce PFOS, however trace levels of PFOA may result as minor impurities in the raw materials or as a byproduct of the LCPF - based products (C8 Lineplus series).

In 2006, the Environmental Protection Agency (EPA) in the USA and the eight major companies active in the fluorochemicals market launched the 2010/15 PFOA Stewardship Program.

According to this agreement, the companies committed to work towards eliminating the emissions and use of PFOA and related substances (LCPFCs) by 2015. As well as EPA also the European Chemical Agency (ECHA) considered in its analysis 2015 as the ultimate phase out deadline for direct use of PFOA and related compounds.

MAFLON® is fully involved in the LCPFCs (PFOA) substitution/elimination process. At the end of 2010 MAFLON® R&D team concluded the development of a new line of products based on shorter chain perfluorinated chemicals (C4-C6 HEXAFOR series).

They show similar or even better performance in comparison to those of LCPFCs (C8 Lineplus series) avoiding any possibility of PFOA release in the environment.

At present, although all the new R&D projects are focused on the new C6 HEXAFOR series, MAFLON® guarantees the delivery of its C8 Lineplus series onto the market until 2015.

WHEN YOU NEED
GOOD PROTECTION...

...TRUST MAFLON®!
THE FLUORO-CHEMICAL SPECIALIST





THE FLUOROCHEMICALS SPECIALIST

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