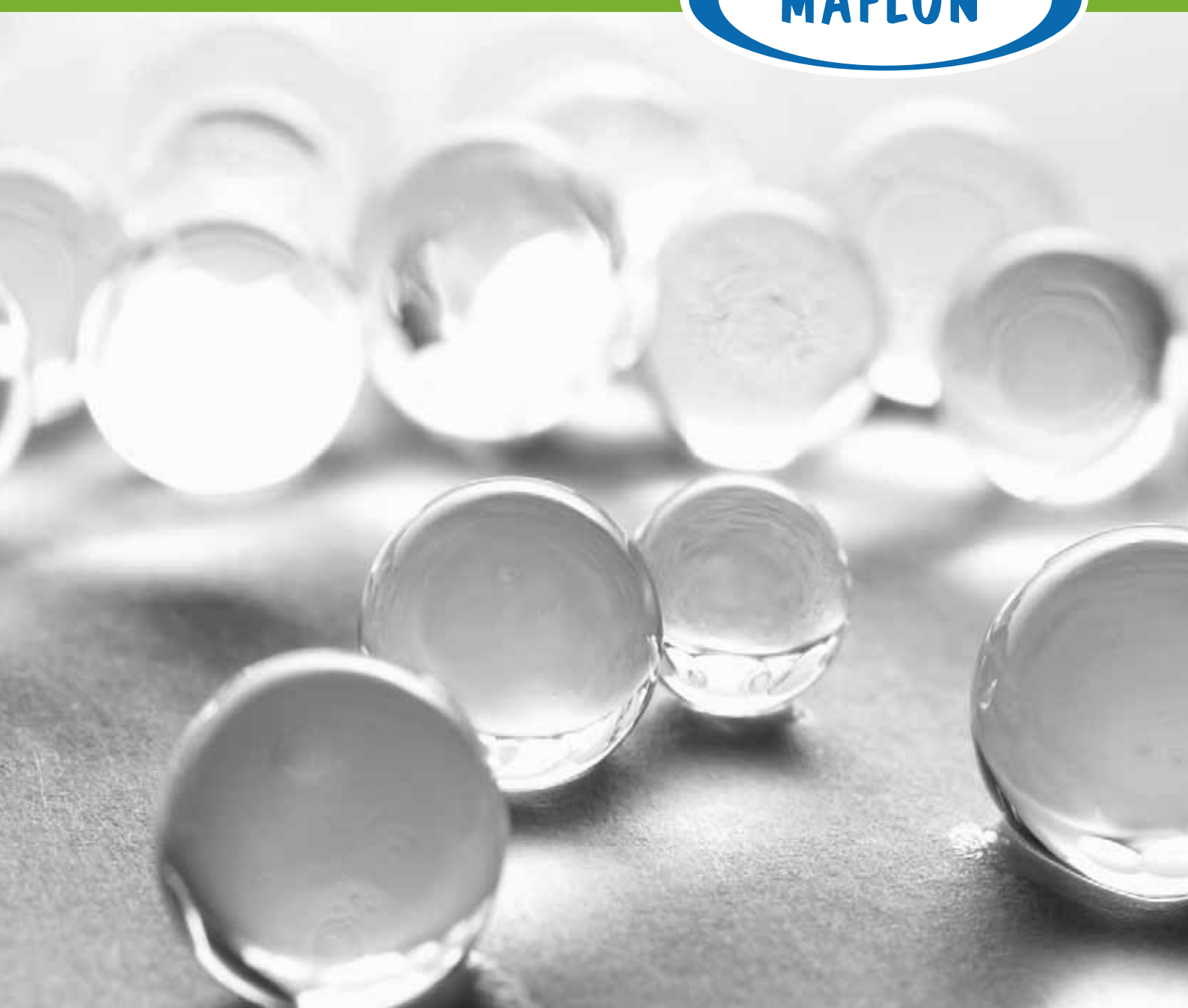


THE FLUOROCHEMICALS SPECIALIST





THE FLUORO-CHEMICALS SPECIALIST

Maflon® was founded in 1989, from the very beginning specialising in the process and production of PTFE compounds.

A research project born to focus on fluorinated products that has steadily grown in stature, developing a solid foundation, whilst at the same time gaining a wealth of knowledge and expertise in this field.

From 2009 Maflon® was incorporated in Guarniflon® S.p.A., becoming the fluorochemical specialties business unit of the group and focused on special and high-tech fluorinated products for surfaces protection.

Doesn't matter if we're talking about leather or textile, stones, marble, granite or wood surfaces, Maflon® always has the right solution which provides the surfaces with a durable and transparent treatment while creating a high effective protective barrier against different oils, water, coffee, food products and beverages.

Maflon® fluorosurfactants impart excellent wetting, spreading and levelling properties in a variety of coating systems including cleaners and waxes, polishes, inks, adhesives, polymer technology and high solid coatings.

R&d and production activities are managed in the headquarters located in the north of Italy, joining quality and safe processes with care and prevention of the environment.

Today Maflon® has a research team leading the R&D activities, cooperating closely with 3 of the most important Universities in this sector.



CHEMISTRY

Maflon® scientific research is based on the chemical study of fluoro telomers, perfluoroalkyl iodides, obtained by a controlled polymerisation of the tetrafluoroethylene. Researches in Maflon®'s laboratory use these molecules inorganic synthesis for the preparation of fluorinated materials and compounds of the type $F(CF_2)_n(CH_2)_mX$, where X can be different functional groups such as alcohols, glycols, olefins, (meth)acrylics, epoxydes, silanes.

These new chemical intermediates are the raw materials for the production of more complex fluorinated products used in several applications:

- polymers of different structure such as poly(meth)acrylates, polyurethanes, polysiloxane for surface treatment in order to improve oleo and hydro repellency;
- fluorosurfactants used as wetting, levelling agents for floor polish, wax formulation, paint and coating;
- perfluoroalkane $CF_3(CF_2)_nCF_3$ used as solid lubricants;
- diblocks or semiperfluoroalkanes with the structure $CF_3(CF_2)_n(CH_2)_mCH_3$ used as solid lubricants or fluorinated solvents with a high solubility for oxygen and carbon dioxide.

The above products are characterized and tested in Maflon® internal laboratory thanks to the following technical instruments:

- Infrared spectroscopy (IR)
- Differential scanning calorimetry (DSC)
- Gel permeation chromatography (GPC)
- Gas chromatography (GC) and gas chromatography – mass spectrometry (GC-MS)
- QUV weathering tester
- Abrasion tester
- Tensiometer for surface and interfacial tension measurements

In brief, technical performances connected with the chemical structure, under a special attention to deal with environmental friendly products.

HIGH PERFORMANCES IN FLUOROCHEMICALS

Maflon® products can meet a wide range of applications and have been divided into different specific business lines, always offering tailor-made solutions to the customers and remaining one step ahead of the competition.

The main characteristics of Maflon® products are predominantly due to the C-F (carbon-fluorine) chemical bonds they contain. That's the reason why the molecules are very stable and can be used in a wide range of applications.

A special mention to Lineplus PF, a micronized PTFE additive designed to enhance the wear resistance, (chemical, UV and corrosion resistance), lubricity and non-stick properties of a variety of materials: printing inks, paint and coatings, thermoplastic, grease and lubricants, plastics and elastomers.

Also offering excellent performance for applications on textile and leather materials, where Maflon® products can be applied without altering the aspect and the touch sensation of treated substrate.

The latest addition to the Maflon® range is the new brand Hexafor that is rapidly growing in reputation thanks to its technical performances connected with the chemical structure, high performance short chain fluoropolymers and fluorosurfactants.

Below is a brief list of product categories:

- non-ionic fluorinated surfactants
- anionic fluorinated surfactants
- perfluoroalkanes
- semifluorinated alkanes
- fluorinated polyacrylates/metacrylates
- fluorinated siloxanes
- fluorinated silicones
- fluorinated polyurethanes
- fluorinated intermediates



MAFLON R&D

Maflon® R&D department is constantly involved with the development of new fluorinated materials to find innovative and customized solutions for different applications. That target can be reached thanks to the availability of a devoted engineers and chemists team, following projects from the research step up to the industrialization phases.

MAFLON QUALITY MANAGEMENT

System certified according to ISO 9001:2008

The quality assurance and quality control procedures - in terms of equipment operations and maintenance - and all procedures as well as analytical methods (on raw materials and finished products control), are made according to international standard (AATCC standard, ASTM standard, DIN standard) or to customers' required standard.

All the above is possible thanks to the availability of an extremely well equipped laboratory, fitted with the most updated technologies and instruments. Last but not least the regular training of Maflon® operators, performing specific processes in accordance with customer or industrial standard.

CUSTOMERS' SERVICE

Synergies between R&D, sales and production departments allow Maflon® to give fast and problem-solving solutions to its customers: skilled and international oriented background managers will always be at the customer's disposal for suggestions and solutions to enhance and strengthen the cooperation.

TECHNICAL & STRATEGIC PARTNERSHIPS

Maflon boasts some close technical cooperation with the Fluorine Chemistry Laboratory of 3 of the most important Italian Universities and other external laboratories, where the latest technologies for the characterization of the different products are used:

- Nuclear magnetic resonance (NMR)
- Scanning electron microscopy (SEM)
- Termogravimetry (TG)
- High pressure liquid chromatography (HPLC)
- Matrix Assisted Laser Desorption Ionization (MALDI)
- Elemental analysis
- Atomic absorption spectroscopy

PRODUCTS

technical data sheet

DO YOU NEED A GOOD PROTECTION? TRUST MAFLON!

THE FLUOROCHEMICALS SPECIALIST

PRODUCT	DESCRIPTION	SOLID %	SOLVENT	IONIC NATURE	DENSITY (25°C)	pH	DOSAGE %		SOLUBILITY	APPLICATIONS	COMMENTS
LINEPLUS LEATHER											
L 103	polymeric	31,5 - 34,5	Water	Non ionic	1,05	2,5 - 4,5 (5% in water)	5-15 %		Water	Leather	Nonionic fluorinated product. Barrier for non wovens. Also used for technical polyester.
LINEPLUS TEXTILE											
T-11	(meth)acrylic	31,0 - 34,0	Water	Weakly Cationic	1,08	3 - 5 (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.
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 waterrepellent 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.
T-20	(meth)acrylic	31,5 - 34,0	Water	Weakly Cationic	1,05	3 - 5 (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, especially cotton, polyester and their blends. It displays low sensitivity to residues on the goods and a very good low curing performance.
T-21	(meth)acrylic polyurethane	33,0 - 37,0	Water	Weakly Cationic	1,05	3 - 5 (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.
T-23	(meth)acrylic	22,0 - 24,0	Water	Weakly Cationic	1,07	4 - 6 (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.
T-30	(meth)acrylic polyurethane	28,0 - 31,0	Water	Weakly Cationic	1	3 - 5 (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 UNIVERSAL											
PDM 180	(meth)acrylic	24 - 26	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.
PDM 280	pure methacrylic	24 - 26	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 leather, textile and carpet protectors are fluoropolymers which provide the surface a durable treatment while creating a high effective repellent protection against: water, oil, coffee, red wine, etc.

These advanced fluoropolymers help to prevent oil and water stain.

FLUOROPOLYMERS

LEATHER AND TEXTILE PROTECTOR
SHORT CHAIN FLUORINATED TECHNOLOGY



PRODUCT	DESCRIPTION	SOLID %	SOLVENT	IONIC NATURE	DENSITY [25°C]	pH	DOSAGE %		SOLUBILITY	APPLICATIONS	COMMENTS
HEXAFOR TEXTILE											
T-62	(meth)acrylic polyurethane	29,5 – 32,5	Water	Weakly Cationic	1,1	3 – 5 (5% in water)	5-70 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 displays low sensitivity to residues on the goods and very good effectiveness after laundering and air drying. Targeted below LOD for PFOA
T-63	(meth)acrylic	27,0 - 29,0	Water	Non ionic	1,1	3 – 5 (5% in water)	10-80 g/l		Water	Textile Similar or better than C8 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 colors. Targeted below LOD for PFOA
T-65	acrylic	23,5 - 26,5	Water	Non ionic	1,1	4 – 6 (5% in water)	40-120 g/l		Water	Soil-Release	Water-based fluorinated polymer emulsion synthesized only with short perfluorinated (C6) 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.
T-70		28,0 - 31,0	Water	Weakly Cationic	1,05	4 – 6 (5% in water)	15-70 g/l		Water	Textile	Economical highly efficient finishing product for durable oil- and waterrepellent 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
HEXAFOR LEATHER											
L 104	Polymeric	23,0 - 26,0	Water	Non ionic	1,1	5 - 6,5 (5% in water)	7-12% 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 stainblocking agents and displays low sensitivity to residues on the goods. Targeted below LOD for PFOA
L 106	(meth)acrylic	27,0 - 29,0	Water	Non ionic	1,1	3 – 5 (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
L 107	(meth)acrylic Polyurethane	29,5 - 32,5	Water	Weakly Cationic	1,1	3 – 5 (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
HEXAFOR UNIVERSAL											
6280	Pure methacrylic	24 - 26	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.
6282	Pure methacrylic	24 - 26	DPM Metryl D72	-	0,92	-	5-10 %		Ester, Ketones, 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.
6380	Pure methacrylic	24 - 26	Butyl Acetate	-	0,95	-	5-10 %		Ester, Ketones, Dipropylenglycol Monomethylether	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. Best performance among C6 Hexafor Universal.

Hexafor leather, textile and carpet protectors are fluoropolymers which provide the surface a durable treatment while creating a high effective repellent protection against: water, oil, coffee, red wine, etc.

PRODUCT	DESCRIPTION	SOLID %	SOLVENT	IONIC NATURE	DENSITY (25°C)	pH	DOSAGE %		SOLUBILITY	COMMENTS
PDM 180	(meth)acrylic	24 - 26	Butyl Acetate	-	0,96	-	5-10 %		Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene, Dipropylenglycol Monomethylether, 2-propanol	Excellent hydro-oil repellent for natural stone especially for compact stone like marble and granite. Targeted below LOD for PFOA.
PDM 282	pure methacrylic	24 - 26	DPM Metryl D72	-	0,92	-	5-10 %		Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene	High Flash point (→ 70°C) excellent hydro-oil repellent for natural stone especially for compact stone like marble and granite, Low odor. Lower evaporation rate for increasing penetration.
PDM 280	pure methacrylic	24 - 26	Butyl Acetate	-	0,95	-	5-10 %		Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene	Excellent hydro-oil repellent for natural stone especially for compact stone like marble and granite. Higher UV-resistance due to the pure methacrylic structure
PDM 210	(meth)acrylic	24 - 26	Water Tert-Butanol	Cationic	1,02	6 - 7	5-10 %		Water	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. To give a wet effect to the treated stone put together cationic/nonionic high gloss water based acrylic polymer. Preferably store at room temperature because of the presence of tert-butanol that leads to an increase in the viscosity of the product at temperature below 10 – 15°C
PDM 211	(meth)acrylic	24 - 26	Water Hexasol	Cationic	1,06	5 - 6	5-10 %		Water,T-butanol	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. To give a wet effect to the treated stone put together cationic/nonionic high gloss water based acrylic polymer. If applied in more hands it can give a little wet effect. Low minimum forming temperature (MFFT). No problem of freezing
PDM 230	(meth)acrylic	24 - 26	Water Tert-Butanol	Anionic	1,03	7 - 8	5-10 %		Water	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. Preferably store at room temperature because of the presence of tert-butanol that leads to an increase in the viscosity of the product at temperature below 10 - 15°C. It can be formulated inside paint, varnishes, wax to increase hydro-oil repellency. Improve also color stability of exterior paint (verified with a xenon test). It can be formulated for wood protection. Stable until pH of 13,5.
PDM 240	(meth)acrylic	24 - 26	Water	Cationic	1,09	5 - 6	5-10 %		Water	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. With long term storage add a biocide to the diluted product. Good antigraffiti properties. If applied in more hands it can give a little wet effect. To increase the penetration of the product into the stone dilute with different proportion of water/Isopropanol.
PDM 290	(meth)acrylic siloxane	24 - 26	Water N-Ethyl Pyrrolidone	Cationic	1,09	4,5 – 6,5	5-10 %		Water	Excellent hydro-oil repellent with very good perlant effect for natural stone especially for porous stone like limestone and sandstone. To give a wet effect to the treated stone put together cationic/nonionic high gloss water based acrylic polymer. It can be formulated for wood protection. No problem of freezing. Stir before use.
PDM 390	(meth)acrylic siloxane	24 - 26	Water	Cationic	1,10	4,5 – 6,5	5-10 %		Water	Excellent hydro-oil repellent with very good perlant effect for natural stone especially for porous stone like limestone and sandstone. To give a wet effect to the treated stone put together cationic/nonionic high gloss water based acrylic polymer. It can be formulated for wood protection. No problem of freezing. Silane monomers into the polymer skeleton increase the adhesion of the dried coating to limestone, concrete... Stir before use.

APPLICATIONS : Surface Protection Agent

Lineplus stone, marble and concrete protectors are fluoropolymers penetrating which provide the surface a durable and transparent treatment while creating a high effective protective barrier against: olive and motor oil, water, coffee, ketchup, red wine, mustard, etc. These advanced fluoropolymer solutions help to prevent oil and water based staining interior and exterior porous surfaces such as concrete, stone, granite, terracotta, marble, grout, masonry and other porous and compact mineral surfaces.

PRODUCT	DESCRIPTION	SOLID %	SOLVENT	IONIC NATURE	DENSITY (25°C)	pH	DOSAGE %		SOLUBILITY	COMMENTS
6210	(meth)acrylic	24 - 26	Water Ter-Butanol	Cationic	1,03	6 - 7	5-10 %		Water 2-propanol Ter-Butanol	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. To give a wet effect to the treated stone put together cationic/nonionic high gloss water based acrylic polymer. Preferably store at room temperature because of the presence of tert-butanol that leads to an increase in the viscosity of the product at temperature below 10 - 15°C. Targeted below LOD for PFOA
6211	(meth)acrylic	24 - 26	Water Hexasol	Cationic	1,05	5 - 6	5-10 %		Water T-butanol glicole esilenico	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. To give a wet effect to the treated stone put together cationic/nonionic high gloss water based acrylic polymer. If applied in more hands it can give a little wet effect. Low minimum forming temperature (MFFT). No problem of freezing. Targeted below LOD for PFOA.
6230	(meth)acrylic	24 - 26	Water Tert-Butanol	Anionic	1,03	7 - 9	5-10 %		Water Ter-Butanol	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. In some case it could give a very little wet effect. Preferably store at room temperature because of the presence of tert-butanol that leads to an increase in the viscosity of the product at temperature below 10 - 15°C. It can be formulated inside paint, varnishes, wax to increase hydro-oil repellency. Improve also color stability of exterior paint (verified with a xenon test). It can be formulated for wood protection. Stable until pH of 13,5. Targeted below LOD for PFOA.
6240	(meth)acrylic	24 - 26	Water	Cationic	1,08	4,5 - 5,5	5-10 %		Water 2-propanol Ter-Butanol Hexylene glycol	Excellent hydro-oil repellent for natural stone especially for porous stone like limestone and sandstone. With long term storage add a biocide to the diluted product. Good antigraffiti properties. If applied in more hands it can give a little wet effect. To increase the penetration of the product into the stone dilute with different proportion of water/Isopropanol. Targeted below LOD for PFOA.
6280	Pure methacrylic	24 - 26	Butyl Acetate	-	0,95	-	5-10 %		Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene, Dipropylenglycol Monomethylether, 2-Propanol	Excellent hydro-oil repellent for natural stone especially for compact stone like marble and granite. Targeted below LOD for PFOA.
6282	Pure methacrylic	24 - 26	DPM Metryl D72	-	0,92	-	5-10 %		Low-medium hydrocarbons, Ester, Ketones, Heptane, Toluene, Xylene, Dipropylenglycol Monomethylether, 2-Propanol	High Flash point (→ 70°C) excellent hydro-oil repellent for natural stone especially for compact stone like marble and granite, Low odor. Lower evaporation rate for increasing penetration. Targeted below LOD for PFOA.
6380	Pure methacrylic	24 - 26	Butyl Acetate	-	0,95	-	5-10 %		Ester, Ketones, Dipropylenglycol Monomethylether	Excellent hydro-oil repellent for natural stone with a higher Tg (Glass transition temperature) in comparison to the others solvent based products. Indicated especially for compact stone (marble, granite) and rigid stone (tile, porcelain). Targeted below LOD for PFOA.
6390	(meth)acrylic silane	24 - 26	Water	Cationic	1,08	4,5 - 6,5	5-10 %		Water, 2-propanol, T-butanol	Excellent hydro-oil repellent for natural stone with a higher Tg (Glass transition temperature) in comparison to the others solvent based products. Indicated especially for compact stone (marble, granite) and rigid stone (tile, porcelain). Targeted below LOD for PFOA.
S30	(meth)acrylic siloxane	48 - 50	Butyl Acetate	-	0,91	-	5-10 %		Hydrocarbons, Isoparaffins, Ester, Ketones, Heptane, Toluene, Xylene, Dipropylenglycol Monomethylether, 2-propanol	Solution of siloxane fluorinated polymer for porous stone materials for building construction market. With its good penetration can be used as a water repellent agent and anti-stain especially on concrete and masonry surfaces. Siloxane moieties increase the adhesion of the polymer to these substrates. Targeted below LOD for PFOA
S40	(meth)acrylic siloxane	30 - 33	Water	Cationic	1,04	4,5 - 6,5	15-35%		Water	Water emulsion of siloxane fluorinated polymer for porous stone materials for building construction market. With its good penetration can be used as a water repellent agent and anti-stain especially on concrete and masonry surfaces. Siloxane moieties increase the adhesion of the polymer to these substrates. Targeted below LOD for PFOA

APPLICATIONS : Surface Protection Agent

PRODUCT	DESCRIPTION	SOLID %	SOLVENT	IONIC NATURE	DENSITY (25°C)	pH	DOSAGE %	SOLUBILITY	SURFACE TENSION (In deionized water at 25°C)			APPLICATIONS	COMMENTS
									0,01%	0,05%	0,1%		
LINEPLUS													
PDM 112	Lithium Carboxylate	25 - 27	Water IPA	Anionic	1	7-9	0,01 - 0,1	Water Dipropylenglycol Monomethylether Hexylene glycol	21,7	17,8	16	Paint and coating, waxes and Polishes, detergents	Excellent leveling, improved wetting , reduce orange peel effect, compatible with most aqueous waxes, coating and detergents. Reduced surface tension at very low concentration.

SHORT CHAIN FLUORINATED TECHNOLOGY

HEXAFOR													
647	Polymeric-acrylic	25 -27	Hexylen Glycol, MEK	Non ionic	0,91	7 (5%in water)	0,05 - 0,4	Water, Butyl Acetate, Ethyl Acetate, Toluene, Isopropyl alcohol, Methyl Ethyl Ketone, DPM	35,5	32,2	27,4	Paint- coatings; Floor waxes and polishes	Hexafor 647 is a polymeric non-ionic fluorosurfactant. Allows better leveling, improved wetting and spreading, reduce orange peel effect for water based and solvent based systems. High thermal stability. Low foaming.
678	Polymeric-Ethoxylated	93 - 100	None	Non ionic	1,28	4-6 (5%in water)	0,01 - 0,2	Water, Butyl Cellosolve, Toluene, Isopropyl alcohol, Methyl Ethyl Ketone, Ethyl Acetate, DPM	23,8	17,8	17,6	Paint and Coatings, waxes and polishes, Inks.	Excellent leveling, improved wetting , reduce orange peel effect. Stable in both acid and basic conditions. Reduced surface tension at very low concentration. Improves oil-idro repellency of Lineplus and Hexafor surface protection agents for porous mineral surfaces. Can be used as an emulsifying agent. Improved antifogging.
678-D	Polymeric-Ethoxylated	24 - 25	IPA Water	Non ionic	0,95	4 - 6	0,04 - 0,4	Water Butyl Cellosolve, Isopropyl alcohol, Methyl Ethyl Ketone, DPM	23,8	18,1	17,9	Waxes and Polishes, paint and coatings, detergents	Water-solvent soluble, ethoxylated non-ionic fluorosurfactant, effectively reduces surface tension at very low concentrations. HEXAFOR™678-D is ultimately biodegradable as defined by annex III of the European Regulation 648/2004/EC on detergents. Stable in both acid and basic conditions. Leveling agents, improved wetting , reduce orange peel effect.
670	Polymeric-Ethoxylated	95 - 100	None	Non ionic	1,23	4- 6 (5%in water)	0,005-0,2	Water Butyl Cellosolve, Isopropyl alcohol, Methyl Ethyl Ketone, DPM, toluene	20,7	19,4	19,4	Paint and Coatings, waxes and polishes, inks	Water-solvent soluble, ethoxylated non-ionic fluorosurfactant (solvent free) Effective a very low concentrations, allow better leveling, improved wetting and spreading, reduce orange peel effect. Its branched structure gives a very low pour point. Stable in both acid and basic conditions. Hexafor 670 is an alkoxyate fluorinated polyol with a hydroxyl number of 190 mgKOH/g
675	Polymeric-Ethoxylated	50 - 53	Water Ethylene Glycol	Non ionic	1,16	3 - 6	0,02-0,2	Water, Butyl Cellosolve, Isopropyl alcohol, MEK	22,3	18,6	18,0	Paint and Coatings, waxes and polishes, Inks	Hight flash point (→60°C), water-solvent soluble, ethoxylated non-ionic fluorosurfactant, effectively reduces surface tension at very low concentrations. Stable in both acid and basic conditions. Leveling agents, improved wetting , reduce orange peel effect.



MAFLON®

**THE FLUOROCHEMICALS
SPECIALIST**



UNI EN ISO 9001:2008



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