

Penetrating Sealers for Stone, Tile & Concrete



HEXAFOR®
WATER & OIL REPELLENTS



STONE, TILE & CONCRETE

WATER & OIL REPELLENCE

PRODUCT OVERVIEW:

Hexafor® fluoropolymer repellents can be diluted to create water- and oil- repellent penetrating sealers for natural stone, porous tile, grout and masonry. They prevent staining without changing the natural appearance of the substrate. They provide water- and oil- repellence, stain resistance and easy stain clean-up. All of our C6 Hexafor® fluoropolymers are Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) free.

PROPERTIES:

- Excellent water- and oil- repellence
- Anti-Stain properties
- Easy to clean properties
- Durable treatment
- Anti-Graffiti properties
- Water or solvent based
- UV resistance
- Targeted below LOD for PFOA

PRODUCTS	IONOGENITY	ACTIVE SUBSTANCE	CHEMICAL DESCRIPTION	FEATURES & BENEFITS
HEXAFOR® 6211	Cationic	25%	(Meth)acrylic polymer in water	Excellent hydro- and oil- repellent for natural stone, especially for porous stone. To give a wet effect to the treated stone, mix with a cationic/non-ionic high gloss water based acrylic polymer. If applied in more coats, it can give weak wet effect. Low minimum film forming temperature (MFFT). No problem of freezing.
HEXAFOR® 6232	Anionic	25%	(Meth)acrylic polymer in water	Excellent hydro- and oil- repellent for natural stone, especially for porous stone. In some cases, it could give weak wet effect. It can be formulated inside paints, varnishes and waxes to increase hydro- and oil- repellence. It can be formulated for wood protection.
HEXAFOR® 6242	Cationic	25%	(Meth)acrylic polymer in water	Excellent hydro- and oil- repellent for natural stone, especially for porous stone. For long storages, add a biocide to the diluted product. If applied in more coats, it can give weak wet effect. To increase the penetration of the product into the stone, dilute in different proportion of water/isopropanol.
HEXAFOR® 6280	-	25%	Pure methacrylic polymer in solvent	Excellent hydro- and oil- repellent for natural stone, especially for compact stone.
HEXAFOR® 6282	-	25%	Pure methacrylic polymer in solvent	High Flash point (>70°C). Excellent hydro- and oil- repellent for natural stone, especially for compact stone. Low odour. To increase penetration into the stones, reduce the evaporation rate of the applied formulation.
HEXAFOR® 6284	-	25%	Pure methacrylic polymer in solvent	Excellent hydro- and oil- repellent for natural stone, especially for compact stone.
HEXAFOR® 6380-P	-	100%	Pure methacrylic polymer powder	It can be used either diluted in solvents (to provide a durable and transparent surface treatment to building materials), or as an additive in solvent based systems. As a protective, it provides excellent water- and oil- repellence and stain resistance features. The treated surfaces are easily cleanable. It does not change the original appearance of the stone.
HEXAFOR® 6392	Cationic	20%	(Meth)acrylic polymer silane in water	Excellent hydro- and oil- repellent with very good beading effect for natural stone, especially for porous stone like limestone and sandstone. To give a wet effect to the treated stone, mix with a cationic/non-ionic 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 applied on limestone and concrete.
HEXAFOR® 6400	Anionic	15%	Fluorinated phosphate ester	Excellent hydro- and oil- repellent with very good anti-stain effect for natural stone, especially for compact stone. Low odour. Compatible with anionic systems. Improves the UV resistance of the polymers used for coating.



APPLICATIONS & PHYSICAL PROPERTIES

MAFLON HEXAFOR®		6211	6242	6392	6232	6280	6282	6284	6400
General Product Description		Penetrating sealer for porous surfaces	VOC free penetrating sealer for porous surfaces	VOC free penetrating sealer for porous surfaces	High performing VOC free penetrating sealer	Solvent-based penetrating sealer	High performing solvent based penetrating sealer	High performing solvent-based penetrating sealer	VOC Free fluorinated phosphate ester
Product Properties	Ionic Nature	Cationic	Cationic	Cationic	Anionic	-	-	-	Anionic
	% Solids	25	25	20	25	25	25	25	15
	pH	5 - 6	4 - 5,5	5 - 7	8 - 11	-	-	7,5 - 9	7 - 9
	Medium	Water + Hexylene glycol	Water	Water, MMB	Water	Butyl acetate	DPM + Hydrocarbon solvent	Butyl acetate	Water
	VOC Content	25%	-	-	-	75%	75%	75%	-
	Density	1,05	1,10	1,08	1,12	0,95	0,92	0,95	1,08
	Solubility	Water	Water	Water	Water	Esters Ketones Mineral spirit	Esters Ketones Mineral spirit	Esters Ketones Mineral spirit	Water
Formulating Information and Application	Typical dilution	5 - 10%	5 - 10%	5 - 10%	5 - 10%	8 - 10%	5 - 10%	8 - 10%	5 - 20%
	Formulation	For low pH formulation <6			For high pH formulation >7	-	-	-	For high pH formulation >7
	Main Advantage	Versatile	Versatile	Versatile	Resistant to acidic conditions	Versatile Good penetration	Versatile Good penetration	Versatile	Versatile
	Clay Brick	●●●	●●●	●●●	●●●	●●	●●	●●	●●
	Concrete	●●	●●	●●●	●●	●●	●●	●●	●●●
	Porcelain	●	●	●●●●	●	●●	●●	●●●●	●●●●
	Granite	●●	●●	●●●	●●	●●●	●●●	●●●	●●●●
	Limestone	●●●●	●●●●	●●●●	●●●	●●	●●	●●	●●
	Marble	●●●	●●●●	●●●●	●●	●●●	●●●●	●●●	●●●●
	Saltillo Terracotta	●●●	●●●	●●●●	●●●	●●	●●	●●	●●
	Sandstone	●●	●●	●●●	●●	●●●●	●●●●	●●●●	●●●
	Slate	●●	●●	●●●	●●●	●●●	●●●	●●	●●

●●●● = High Performance; ●●● = Recommended; ●● = Suitable; ● = not appropriate



Via don Ravizza snc
24060 - Castelli Calepio
Bergamo - Italy
www.maflon.com - info@maflon.com
Phone (+39) 035 4494301 - Fax (+39) 035 4494331