

MP90 ECO EXTREME

EXTREME ECO-COMPATIBLE WATER- AND OIL-REPELLENT PROTECTION

A broad-spectrum water-based water and oil repellent sealer: suitable for protecting all surfaces and finishes.

CHARACTERISTICS AND ADVANTAGES

- Water-based water and oil repellent sealer
- Suitable for all finishes – polished or unpolished
- Anti-graffiti action
- Breathable and does not create a surface film
- Natural finish: does not alter the surface's original appearance
- Low environmental impact
- Suitable for interior and outdoor use



5 litres

1 litre

375 mL



* A product with an extremely low VOCs and a low environmental impact; it also has the INDOOR AIR COMFORT GOLD certificate. The product has passed the applicable stringent requirements and conforms to all compulsory national standards (for example: FrenchA+, CAM Edilizia, Belgian Regulation, AgBB, etc.) as well as innovative environmental sustainability criteria, such as LEED, BREEAM, WELL. For further information consult www.filasolutions.com/eng/company/the-fila-research-centre



MATERIALS

POLISHED PORCELAIN TILES, MARBLE AND GRANITE, NATURAL STONE AND AGGLOMERATES, CONCRETE



FIELDS OF APPLICATION

- Stain-proofing action that blocks the absorption of oily and watery substances on precious surfaces made of crystalline marble, calcarenite, onyx, quartz arenite, Venetian terrazzo tiles, crackle ceramic, etc.
- Effective also on porous materials such as terracotta, concrete and cement tiles
- Protection of indoor and outdoor surfaces requiring high-performance treatment
- Anti-graffiti action
- Easy to apply and fast-drying, the ideal solution for large surfaces on floors and walls
- Ideal for protecting kitchen worktops, bathroom tops and tables
- Treated surfaces are safe for food contact
- Perfect for jobs complying with CAM criteria, the product is certified Indoor Air Comfort Gold*: free of solvents and with extremely low VOC emissions 55.52 g/l



INSTRUCTIONS

Shake before use.

APPLICATION:

For materials with matt finish (natural stone, terracotta, agglomerates, cement tiles): apply MP90 ECO XTREME evenly and continuously on a clean and dry surface using a brush or fleece pad, wetting the grout lines as well. Dab any excess product with a clean cloth before it dries. On highly absorbent materials, apply two coats of product with a 20-minute interval in between.

For polished porcelain tiles, natural stone, agglomerates with glossy finish: apply MP90 ECO XTREME on a clean and dry surface, wetting the material and grout lines completely using a brush or fleece pad. Before the product dries (roughly 10-15 minutes), rub it using a microfibre cloth wetted with the product to favour its penetration. Dry the surface with a clean cloth. To speed up the process, it is possible to treat the surface with a single-disc machine.

To complete the cycle with the finish: On porous materials such as natural stone, reconstructed tiles, agglomerates and cement tiles laid in indoor environments, a finishing wax can be applied depending on the material and on the desired effect after 4 hours (MATT, SATIN,

CLASSIC, LONGLIFE). The surface can be walked on after just 2 hours. Water- and oil-repellent protection takes effect after 24 hours.

Maintenance: use a diluted solution of CLEANER PRO.



WARNINGS

Before applying to the entire surface, test the product on a small area to check for colour changes. Do not apply the product outdoors if rain is in forecast. Does not protect against acid aggression.

Storage temperature: Between 5°C and 30°C. Must be applied at temperatures between 10°C and 30°C.

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TOOLS FOR APPLICATION



BRUSH



FLAT BRUSH



WAX
APPLICATOR



MICROFIBRE
CLOTH

The tools can be cleaned with water



TECHNICAL SPECIFICATION

Protective agent with extreme water and oil repellent action free of hydrocarbon solvents and eco-compatible, made up of organic resins in aqueous suspension (density: 1.004 kg/l; pH: 9.9; flash point > 93°C) for absorbent surfaces with polished and unpolished finishes made of natural stone, marble, granite and agglomerates, concrete tiles, terracotta. Suitable for horizontal or vertical surfaces, both indoors and outdoors. Water and oil repellent action. Anti-graffiti action with a deterrent effect. It does not form a surface film, resists UV radiation, does not yellow, ensures lasting protection over time (as per the **ASTM G154** standard), is breathable (as per **ASTM E96M - Permeability to water vapour of materials**), does not substantially alter the material's skid resistance (as per the **ASTM C 1028-2007 [E2010]** and **BS 7976-2 2002** standards) nor its degree of gloss (as per the **ASTM D523-08** standard), and can be applied when there is residual humidity; approved standard levels: **GEV-EMICODE®** and **EC1Plus**-marked, it helps to obtain **LEED, BREEM** and **CAM credits**, **French VOC Regulation**, **Belgian Regulation as per Royal Decree of May 2015** as suitable for contact with foodstuffs, **Indoor Air Comfort Gold®**. Manufactured by an **ISO 9001** and **ISO 14001**-certified company.



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MP90 ECO EXTREME





EXTREME ECO-COMPATIBLE WATER- AND OIL-REPELLENT PROTECTION

✓ TECHNICAL TESTS

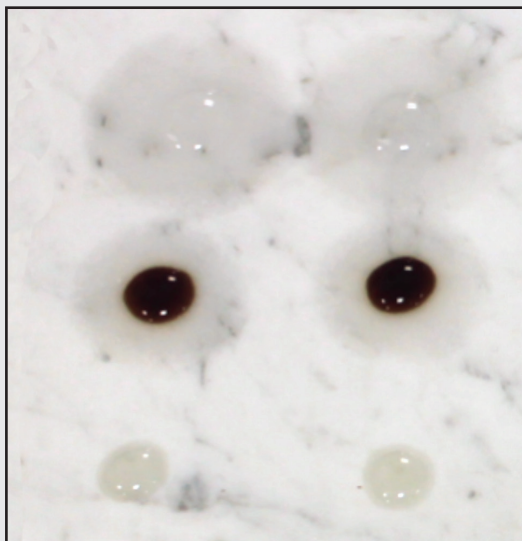
Stain-proofing action: verified according to UNI EN 16301 - Sensitivity to accidental staining.

	UNTREATED				TREATED WITH MP90 ECO XTREME			
	OIL		COFFEE		OIL		COFFEE	
	1 HOUR	4 HOURS	1 HOUR	4 HOURS	1 HOUR	4 HOURS	1 HOUR	4 HOURS
Carrara marble	3	4	4	4	1	1	1	1
Granite	3	4	2	4	1	1	1	1
Limestone	4	4	3	4	1	1	1	2

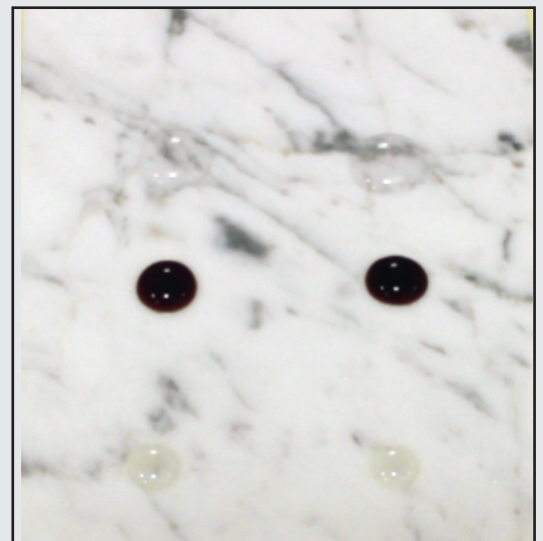
The stain was removed using neutral detergent and a cloth.

			
1 no change	2 slight change	3 moderate change	4 strong change

IN CONTACT WITH
STAINING AGENTS

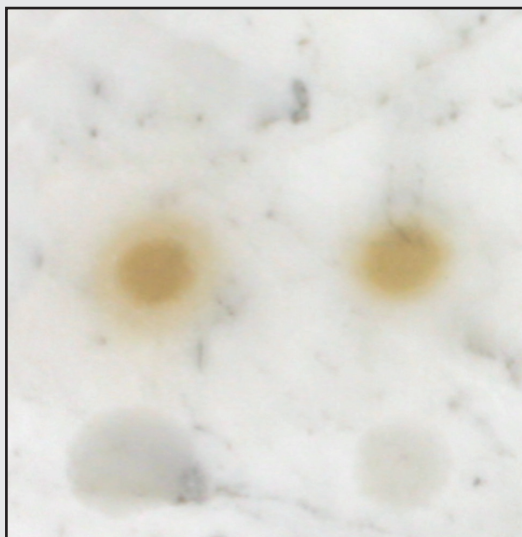


4 HOURS 1 HOUR



4 HOURS 1 HOUR

AFTER THE REMOVAL
OF STAINING AGENTS



UNTREATED



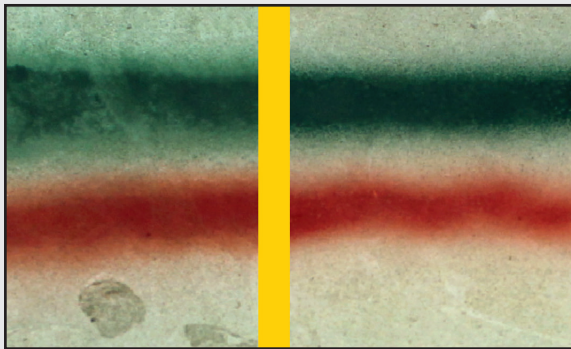
TREATED WITH MP90 ECO XTREME

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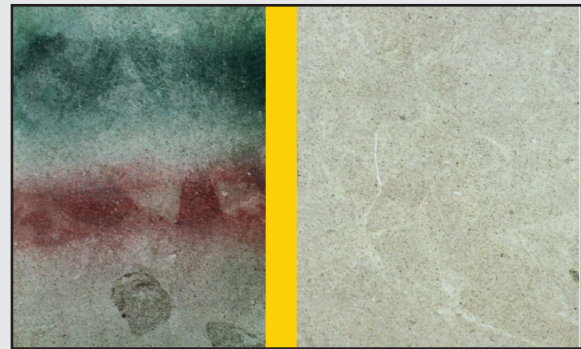
Anti-graffiti action: the treatment with **MP90 ECO XTREME** ensures that spray paints used for acts of vandalism cannot penetrate the surface; this makes the paints easier to remove, facilitates maintenance and reduces the costs involved.

AFTER WASHING WITH NOPAINT STAR GEL CLEANER TO REMOVE GRAFFITI



UNTREATED

MP90 ECO XTREME

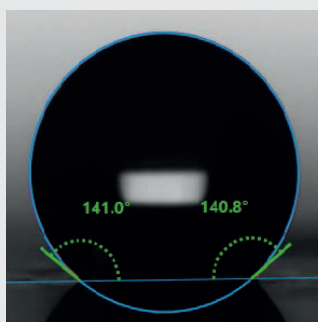


UNTREATED

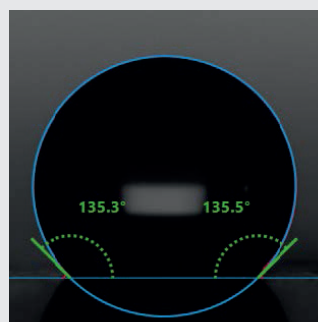
MP90 ECO XTREME

Water-repellent effect by measuring the contact angle according to **UNI EN 15802 - Determination of static contact angle**. Conventionally, a surface is hydrophobic when $\theta > 90^\circ$. **MP90 ECO XTREME** on an unpolished surface reaches angles greater than 130° .

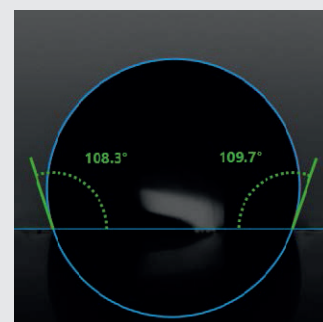
Surface treated with MP90 ECO XTREME	SANDSTONE (GOLDSTONE) HONED	LIMESTONE (VICENZA STONE) HONED	LIMESTONE (ASIAGO PINK) POLISHED
θ average value	135° (Excellent)	140° (Super-hydrophobic)	115° (Good)



LIMESTONE



SANDSTONE



POLISHED MARBLE

Breathability verified according to **ASTM E96M - Water vapour permeability of materials**. The treatment with **MP90 ECO XTREME** maintains breathability above 90% compared to the untreated material.

Withstands UV radiation, does not yellow. Ageing accelerated through exposure to UV radiation as per **ASTM G154**. Colour variation assessed according to **UNI EN 15886:2010 - Colour measurement of surfaces**.

Does not alter the surface's original coefficient of friction.

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HOW IT WORKS

MP90 ECO XTREME is a water and oil repellent sealer made up of a water suspension of organic resins. Thanks to its versatile formula and in-depth research on the application method, it is effective on surfaces with any finish – polished or unfinished. Once **MP90 ECO XTREME** has been applied, it is not necessary to use a water-repellent product since the treatment already performs this function, which allows for preventing water-related decay. **MP90 ECO XTREME** does not alter the substrate's appearance and maintains its breathability.



TECHNICAL FEATURES

COMPOSITION	Formulated with organic resins dispersed in water
APPEARANCE	Transparent pale yellow liquid
ODOUR	Characteristic
DENSITY	1.010 kg/l
STORAGE TEMPERATURE	From 5°C to 30°C
APPLICATION TEMPERATURE	From 10°C to 30°C
DRYING TIME*	2 hours
CURING TIME*	24 hours
VOC (Volatile Organic Compounds) (Directive 1999/13/EC)	50.50 g/l

COVERAGE (1 litre)	
POLISHED PORCELAIN TILES	30-50 m²
POLISHED MARBLE, GRANITE	20-30 m²
MATT HONED STONE	10-20 m²

Coverage is indicative and refers to a single coat

*Indicative time that varies depending on the environmental conditions and on the material

Packaging

375 ml: 12-piece cartons.

1 litre: 6-piece cartons.

5 litres: 4-piece cartons.

Available on request:

100-litre drums

1,000-litre cubes



SAFETY TIPS

Keep out of reach of children. Do not disperse into the environment after use. The product is classified as dangerous under Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

For safety-related information, please refer to the safety information sheet available on the website www.filasolutions.com and carefully read the product's label.



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The recommended instructions and application procedures for our products are the result of accurate tests carried out in our laboratory. There are, however, certain factors that we cannot predict: the condition of the surface before the treatment, particularly rare or unspecified properties/finishes of the material, environmental conditions, and the professionalism of the user. This is why we recommend carrying out a preliminary test on the surface to be treated. FILA always guarantees the quality of its products, but it cannot assume any responsibility in the event of incorrect use.