

Monosil

Clear Hydrophobic Impregnant for Water and Oil Repellency

Product Overview

Surface impregnant to impart water and oil repellency to concrete, brick, masonry, stone, etc.
CE-marked in accordance with BS EN 1504 Part 2.

Uses

To provide protection from water and oil ingress and enhance freeze/thaw resistance whilst enabling easier removal of oil, grease, paint, graffiti, etc. Used on substrates such as concrete, brick, masonry and stone. Particularly suited to the treatment of car park decks and other trafficked areas where oil repellency is required. Suitable for surface protection systems principles 1.1 and 2.1 as defined in BS EN 1504 Part 2.

Advantages

- Typically applied by brush, roller or spray in two coats to prevent water ingress.
- Contains an advanced blend of silane, siloxane and synthetic resins to give multi-functional protection.
- Low hazard, water-based product with no flash point. Equipment easily cleaned with water.
- Breathable - the pores of the substrate remain open and there is minimal effect on water vapour diffusion.
- Imparts oil and water repellency to mineral substrates. Enhances dirt resistance of low porosity natural stone.
- Treated surfaces are simpler to maintain with oil, grease, paint, graffiti or posters easily removed.

Description

MONOSIL is a water-based mixture of silane, siloxane and synthetic resins which imparts maximum water and oil repellency to mineral substrates. It penetrates the surface pores to minimise its effect on the appearance of the substrate and has minimal effect on the water vapour diffusion characteristics. As supplied, it is ideally suited to the treatment of car park decks and other trafficked areas, and it may be diluted on-site to provide a more cost-effective solution for the treatment of walls.

Compliance

- CE-marked in accordance with BS EN 1504 Part 2. Suitable for surface protection systems principles 1.1 and 2.1 as defined in BS EN 1504 Part 2.

	
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EN1504-2: Surface Protection Systems – Coating – Hydrophobic Impregnation (PIH)	
Depth of Penetration Drying Rate Water Absorption Resistance to Alkali	: Class II ≥ 10mm : Class II > 10% : AR < 7.5% : AR _{ALK} < 10%



Technical Data

Property	Standard	BS EN 1504-2 Requirement	Result	
			AS SUPPLIED FOR FLOORS	DILUTED 1:1 FOR WALLS
Depth of Penetration	EN1504-2	≥10mm (Class II)	15.5mm	13,0mm
Drying Rate	EN13579	>10% (Class II)	15.8%	13.8%
Water Absorption	EN13580	AR<7.5%	2.37%	4.98%
Resistance to Alkali		AR _{ALK} <10%	6.15%	7.85%
Appearance		-	Milky White Liquid	
Specific Gravity		-	1	
Flashpoint		-	>100°C.	
pH(Approx)		-	6	

The properties given above are obtained from laboratory tests: results obtained from on-site testing may vary according to site conditions.

Application Instructions

Preparation

The areas to be treated must be air dry, absorbent and free from existing coatings and all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Use techniques capable of achieving the required degree of preparation such as wet grit or water blasting or equivalent approved methods.

Placing

MONOSIL should be applied by brush, roller or spray at a coverage rate of 6-8m²/litre per coat, depending upon surface roughness and porosity. Allow to dry for a maximum of 24 hours before applying a second coat as above. For the treatment of walls, the product can first be diluted 1:1 by volume with clean water, prior to application as above. The hydrophobic and oleophobic effects start to develop within 24 hours and are complete within one week to give maximum water and oil repellency.

It is advisable to test the product on an inconspicuous area first to check for any change in surface appearance.

Treated surfaces should be cleaned as soon as they have become defaced with oil, grease or paint. Clean surfaces may need re-treating to maintain their performance.

Coverage

FORM	COVERAGE PER 5 LITRE UNIT APPLIED AS TWO COATS (M2)
As supplied for floors	15-20m ²
Diluted 1:1 with water for walls	30-40m ²

Cleaning and Storage

All tools should be cleaned with water immediately after use. Unopened containers can be stored for 2 years in dry, frost free conditions away from heat.

Packaging

MONOSIL is supplied in 5 litre units.

Limitations

Do not use **MONOSIL** when the temperature is below 5°C. and falling. Do not use **MONOSIL** on waterproof concrete without referring to the Flexcrete Technical Department. Not suitable for use on trafficked areas.

Health and Safety

Safety Data Sheets are available on request.

Application Top Tips

1. Shake bottle thoroughly.
2. **MONOSIL** should be applied by brush, roller or spray at a coverage rate of 6 to 8m²/litre per coat, depending upon surface roughness and porosity.
3. Allow to dry for a maximum of 24 hours before applying a second coat as above.
4. For the treatment of walls, the product can first be diluted 1:1 by volume with clean water, prior to application as above.
5. Test the product first on an inconspicuous area to check for any change in surface appearance.

The information herein is correct to the best of our knowledge, but it does not necessarily refer to the particular requirements of the customer. If the customer has any particular requirements it should make them known in writing to Flexcrete Technologies Limited, and obtain further advice accordingly.



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EMS 597350
OHS 597351
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