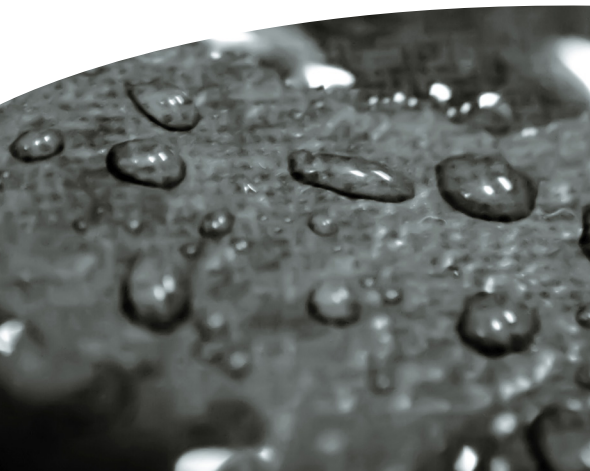


LISOTOP OWR™

Oil and Water Repellent

Section 500

The green power for your surfaces



PRODUCT DESCRIPTION

LisoTop OWR™ is a high performance water-based Silane-Siloxane Fluorinated polymer designed to give superior oil and water repellence with anti-graffiti properties to all interior and exterior concrete and masonry surfaces (i.e. bricks, natural stone, porous or non-porous, etc).

LisoTop OWR™ is non-toxic, odourless, water-based, non-flammable and easy to use. LisoTop OWR™' small molecular structure (0,029 Micron) penetrates deep into the surface without changing its appearance.

LisoTop OWR™ provides excellent water & oil repellence and is stain resistant against olive and seeds oil, coffee, ketchup, mustard etc. The treated surfaces are easily cleanable.

LisoTop OWR™ reduces both spalling due to freeze-thaw and efflorescence, thus increasing the life of the substrate.

The treated LisoTop OWR™ has no surface film to peel or wear off and is therefore more durable.

Anticipated life expectancy of the treated surface is 5-10 years (depending on application and use).

LisoTop OWR™ complies with the EN 1504-02 high requirements.

CHARACTERISTICS

LisoTop OWR™ :

- is a colourless, waterproofing, oleophobic and anti-graffiti treatment for interior and exterior concrete and masonry surfaces.
- is an exclusive new product based on 3 different polymers: Silane, Siloxane and Fluoro Polymer.
- is water-based, contains no solvent and has a very low VOC emission.

ADVANTAGES

- Oil and Water repellent – LisoTop OWR™ closes the pores in concrete or masonry surface, making it more resistant to oil, water and chemical attack.
- Penetrating – LisoTop OWR™ can penetrate deep into the surface allowing better bonding with the concrete or masonry product.
- Invisible – LisoTop OWR™ is a clear product that will not change the appearance of the surface.
- Durable – LisoTop OWR™ creates a stronger, more resistant surface that increases the life of the structure.
- Anti-Graffiti – LisoTop OWR™ gives anti-graffiti properties to the treated surfaces.
- Pollution resistant - LisoTop OWR™ protects the surface against CO2.
- UV-resistant
- Good permeability to water vapour transmission
- Green – all LiSoChem products are environmentally friendly

LisoTop OWR™ has a higher performance compared with similar products on the market.

AREAS OF APPLICATION

LisoTop OWR™ is used as oil, water repellent and anti-graffiti impregnation for absorbent substrates like concrete, bricks, masonry and stone surfaces including:

- Driveways
- Sidewalks
- Patios
- Concrete blocks
- Paving stones
- Manufactured stones
- Stucco
- Walls
- Floors
- Concrete surfaces

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Chemicals for Construction

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FOR CHEMICAL/MEDICAL EMERGENCIES ONLY,

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PHYSICAL PROPERTIES

- Clear to light amber liquid, water-based solution
- Total Solids: 16%
- Active Ingredients: 100% of total solids
- Specific Gravity: 1.09
- pH: 4,5 / 6,5
- Flash Point: N/A
- Boiling Point: 100° C
- Freeze Point: 0° C or 32°F
- Depth of Surface Penetration: 2-12 mm
- Shelf Life: One year in original unopened factory containers and stored under normal storage conditions.

PACKAGING

LisoTop OWR™ is supplied in 5 L pail, 25 L pail, 200 L drum and 1000 L container. Special packaging is available on request.

MIXING

LisoTop OWR™ is a multiple component product. Prior to use please shake or stir the product during 3 to 5 minutes.

SAFETY

For further information, refer to the appropriate Material Safety Data Sheet, however:

- Keep out of reach of children
- Protect from freezing
- Wear safety glasses and rubber gloves
- Do not apply to metal
- Do not apply to glass

PREPARATION AND APPLICATION

We recommend making a test application on a small area for suitability and desired results. Let the surface dry before inspection, testing and approval of desired application.

PREPARATION

1. The surface (brick, marble, stone, concrete...) must be clean, structurally sound and free of wax, dirt, coatings, paints, curing compounds, and left over chemicals.
2. Random cracks, damaged control joints, and new construction joints should be properly prepared. Concrete laitance should be removed.
3. Remove dust by air-blast or by vacuum cleaner prior to application of LisoTop OWR™.
4. Hard steel troweled surfaces should be water tested for penetration characteristics and to estimate the consumption.
5. Horizontal and vertical concrete or masonry surfaces should be sand blasted or shot blasted prior to application for maximum penetration.
6. Before application, cover and protect carefully windows, frames, and each surface that might be in contact with the product against chemical spills. In case of chemical spills, clean it with water immediatel.

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WARRANTY

LiSoChem SA. will, as it sees fit, refund a defective product if it has been used properly.

Except as expressly stated above, the Company offers no guarantee of merchantability or suitability for any particular purpose, nor does it make any guarantee of any kind whatsoever, expressed or implied, with regards to the product or its use.

The company shall not be liable in any way for delay caused by defects, for inappropriate use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

*Eco-friendly
Product*



APPLICATION

1. Do not apply LisoTop OWR™ to a surface colder than 5° C. Do not apply outside if raining or freezing.
2. LisoTop OWR™ should be applied by low pressure sprayer, airless sprayer, roller or brush. Apply 1 litre for 5 to 10 m². Coverage rate varies according to surface porosity.
3. Apply one or two coats depending on surface porosity. Do not allow the first coat to dry before applying a second one, that is what we call "fresh on fresh". Drying time depends on the weather conditions (temperature, humidity, wind etc.)
4. Do not leave product excess on the surface. Wipe off any excess with a clean cloth before the surface dries.
5. On some surfaces (less porous, like marble and granite) use the LisoTop M™ or spray the clean surface with water prior to the application of LisoTop OWR™. This procedure opens the pores of the substrate and makes the penetration of LisoTop OWR™ easier.
6. On vertical surfaces, always apply product from the bottom to the top.
7. Clean all equipment with water.

Maximum protection is achieved 3 – 6 days after surface treatment.

ANTI-GRAFFITI TREATMENT

Once treated, the surface acquires anti-graffiti properties. For the removal of graffiti, we recommend following these steps:

1. Remove graffiti with hot water (80°C) and high pressure between 80 and 100 bars.
2. After removing the graffiti, apply another 2 coats of LisoTop OWR™ if necessary.
3. Clean all equipment with water

The anti-graffiti treatment protects against penetration of colour pigments and paints. The treated surface will be easily cleanable.

TESTS

LisoTop OWR™ has been tested in different laboratories around the world and meets the VOC requirements.

LisoTop OWR™ has been tested by the F. A. Finger - Institute For Building Materials Science (Bauhaus – University Weimar, Germany). We have summarized results of this test. The full report is available on request.

CLASSIFICATION OF LISOTOP OWR™ ACCORDING TO DIN EN 1504-2 /CLASS 1

The following tests have been done:

- drying test according to DIN EN 13579 /2/,
- water absorption and resistance to alkali according to DIN EN 13580 /3/,
- determination of loss of mass of hydrophobic impregnated concrete after freeze-thaw salt stress according to DIN EN 13581 /4/,
- depth of penetration according to DIN EN 1504-2 /1/

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