

The green power for your surfaces



PRODUCT DESCRIPTION

LisoTop WR™ is a high performance water-based Silane / Siloxane emulsion designed to give superior water repellence to all interior or exterior masonry and concrete surfaces.

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

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

LisoTop WR™ is easy to apply and cost competitive.

The treated LisoTop WR™ 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 WR™ complies with the EN 1504-02 high requirements.

CHARACTERISTICS

LisoTop WR™ :

- is a colourless waterproofing treatment for interior and exterior concrete and masonry surfaces.
- is a water-based product based on a Silane / Siloxane emulsion, contains no solvent and has a very low VOC emission.

ADVANTAGES

- Water repellent – LisoTop WR™ closes the pores in concrete or masonry surface, making it more resistant to water and chemical attack.
- Penetrating – LisoTop WR™ penetrates deep into the surface allowing a better reaction & bonding with the concrete or masonry product.
- Invisible – LisoTop WR™ is a clear product that will not change the appearance of the surface.
- Durable – LisoTop WR™ creates a stronger, more resistant surface that increases the life of the structure.
- Pollution resistant - LisoTop WR™ protects the surface against CO₂.
- UV-resistant
- Good permeability to water vapour transmission
- Green – all LiSoChem products are environmentally friendly.

AREAS OF APPLICATION

LisoTop WR™ is used as water repellent impregnation for absorbent substrates like concrete, bricks, masonry and stone surfaces, including:

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

Water repellent

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CUSTOMER SERVICE

+352 26 616 792
info@lisochem.com
to verify the most current versions,
visit our website:
www.lisochem.com

TECHNICAL SERVICE

+352 26 616 792
technical@lisochem.com

WEB

www.lisochem.com

FOR CHEMICAL/MEDICAL EMERGENCIES ONLY,

Anti Poison BE +32 70 245 245
Outside USA 352-323-3500

PHYSICAL PROPERTIES

- Clear to light amber liquid, water-based solution
- Total Solids: 16%
- Active Ingredients: 100% of total solids
- Specific Gravity: 1,106
- pH: 11
- Flash Point: N/A
- VOC Content 300<gms/ 0 g/L
- Freeze Point: 32° F (0°)
- Boiling Point: 100° C
- Depth of Surface Penetration: 2-8 mm
- Shelf Life: One year in original unopened factory containers and stored under normal storage conditions.

PACKAGING

LisoTop WR™ is supplied in 5 L pail, 25 L pail, 200 L drum or 1000 L IBC.
Special packaging is available on request.

MIXING

LisoTop WR™ is a single component product. Prior to use please shake or stir the product during 2 to 3 minutes.

SAFETY

Read Material Safety Data Sheet before using LisoTop WR™, 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.

1. The surface (brick, marble, stone, concrete, etc...) must be clean, structurally sound and free of wax, dirt, coatings, paints, curing compounds, and pet-raw 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 WR™.
4. Hard steel troweled surfaces should be water tested for penetration characteristics and to estimate the consumption.

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WARRANTY

LiSoChem S.A. 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*



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 product spills. In case of chemical spills, clean it with water immediately.
 7. Do not apply LisoTop WR™ to a surface colder than 5°C. Do not apply outside if raining or freezing.
 8. LisoTop WR™ 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.
 9. 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.).
 10. Do not leave product excess on the surface. Wipe off any excess with a clean cloth before the surface dries.
 11. On vertical surfaces, always apply product from the bottom to the top.
 12. Clean all equipment with water.
- Maximum protection is achieved 3-6 days after surface treatment.

TESTS

LISOTOP WR™ TEST ASTM

Water Exclusion Test:

This water exclusion test was run on:

- Mortar Cube • Cement Brick
- Belcrest Brick • Salem Brick

WATER EXCLUSION (1) VS. CONTROL AFTER 24H IMMERSION

Substrate 67 ASTM C642 (2) ASTM C67(3)

Alkaline Substrate

Mortar Cubes.....94,8

Cement Brick.....77

Neutral Substrates

Belcrest Brick.....69,8

Salem Brick48,3

(1) Calculation is based on weight gain of control.

(2) ASTM C642 used 50, 8mmX50, 8mm mortar cubes

(3) ASTM C67 modified to use one eighth of a brick instead of half of a brick with 3 specimens instead of 5.

% WATER EXCLUSION (1) VS. CONTROL AFTER 21 DAYS IMMERSION

Lightweight Concrete Block LisoTop WR™ Water Repellent Emulsion

% Reduction in leak rate (2) -76

Penetration mm - 15

(1) Modified ASTM 514-3 blocks were mounted to a chamber and sprayed with water under 50.8 mm of water pressure for 4 hours.

(2) Percent reduction in leak rate-treated blocks compared with untreated blocks.