

TECHNICAL DATA SHEET (TDS)

LOGIC WATER

Deep Hydrophobic Impregnation for Rising Damp & Moisture Protection

Product Identification

Parameter	Description
Product Name	Logic Water
Product Type	Hydrophobic Impregnation System
Chemical Base	Silane / Siloxane Hybrid
Application Method	Injection / Surface Application
Intended Use	Horizontal and Vertical Waterproofing of Mineral Building Materials

Product Description

Logic Water is a low-viscosity, deep-penetrating hydrophobic impregnation designed to reduce capillary water absorption in mineral substrates.

The product penetrates into the pore structure and forms a long-lasting water-repellent zone without blocking vapor diffusion or forming a surface film.

It is specifically developed for controlling rising damp and protecting structures against water ingress while maintaining substrate breathability.

Suitable substrates include concrete, brick, clinker, natural stone, calcareous sandstone, and cement-based masonry systems.

Areas of Application

- Basements and Below-Ground Structures
- Masonry Walls (Interior & Exterior)
- Concrete Elements and Foundations
- Screeds and Cementitious Substrates
- Horizontal Barriers Against Rising Damp
- Vertical Waterproofing Zones
- Restoration and Renovation Projects

Product Characteristics

- Deep Penetration into Capillary Pores
- Hydrophobic Effect Without Surface Coating
- Vapor-Permeable (Breathable System)
- Reduces Water Absorption and Damp Migration
- Non-Film Forming (No Surface Layer)
- Suitable for Injection and Surface Treatment
- Compatible with Mineral Substrates

Technical Data

Property	Value
Appearance	Clear Liquid
Odor	Odorless
pH Value	Neutral
Density (20°C)	0.764 g/ml
Viscosity ca.	ca. 1.25 mPas
Solvent Content	None (Solvent-Free)
Flammability	Non-Flammable
Water Repellency	High (Hydrophobic Effect)
Vapor Permeability	Maintained

Consumption

Consumption depends on:

- Substrate Porosity
- Application Method (Injection / Surface)
- Moisture Level of the Structure

Typical Consumption: 200–250 ml/m²

Preliminary test areas are strongly recommended before full application.

Application Guidelines

Surface Preparation

- Substrate must be clean, dry, and structurally sound.
- Remove dust, oils, grease, salts, and loose materials.
- Cracks and structural defects must be repaired prior to application.

Application Methods

- Pressure Injection
- Gravity Feed Injection
- Surface Saturation (Brush, Roller, or Spray)

Injection holes must be drilled according to project design and substrate thickness. Apply uniformly to ensure consistent penetration. Avoid over-application or runoff.

Curing and Drying

Parameter	Value
Minimum application temperature	≥ 0°C
Optimal range	+5°C to +30°C
Curing time	Depends on substrate and environmental conditions

During curing:

- Protect treated areas from water exposure.
- Avoid rain, condensation, or direct water contact.

Limitations

- Not suitable for saturated or wet substrates.
- Not applicable on non-porous surfaces (e.g., glass, metals).
- Do not apply on frozen substrates.
- Effectiveness depends on substrate absorption capacity.
- Not designed for active water leakage under pressure.

Safety and Handling

Logic Water is not classified as hazardous under CLP Regulation (EC) No. 1272/2008.

Recommended Precautions

- Use standard PPE (gloves, eye protection)
- Avoid prolonged skin contact
- Ensure ventilation in enclosed areas

In case of contact with eyes or skin: rinse with clean water.

Environmental Information

- Solvent-free and low environmental impact
- Do not discharge into drains or water systems
- Dispose of according to local regulations

Storage

- Store in original, sealed containers
- Protect from frost and extreme temperatures
- Keep away from direct sunlight

Shelf Life

Typically: 24 Months (Under Proper Storage Conditions)

Performance Notes

- Creates an effective capillary moisture barrier
- Maintains substrate breathability
- Suitable for long-term moisture control systems
- Ideal for renovation and waterproofing applications

Legal Disclaimer

The information provided in this Technical Data Sheet is based on laboratory testing and practical experience.

Actual performance may vary depending on application conditions, substrate properties, and environmental factors.

The user is responsible for verifying the suitability of the product for the intended application.

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www.logic-chemie.com