

PRODUCT DATA SHEET

ONE® VERTICAL

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DESCRIPTION OF THE PRODUCT

One-component, coloured, liquid-applied, UV-resistant waterproofing membrane, specifically formulated for vertical applications, even under extreme conditions: low and high temperatures (from 0°C to + 45°C), and damp, very damp, or very wet substrates.

The product remains stable under thermal shock.

Formulated by WINKLER Research & Development Laboratories.

FIELDS OF USE

Waterproofing of vertical surfaces such as plaster, concrete, brick, fibre cement, metal, and ceramic coatings, including substrates affected by persistent excess moisture.

Once applied, the product becomes rainproof within a few hours (refer to the table below).

Rainproof Times

| Temperature of Application | Rainproofed in |
|----------------------------|----------------|
| 20°C | 2 h |
| 15°C | 2 h 30 min |
| 10°C | 3 h |
| 5°C | 4 h |
| 0°C | 5 h |

ONE® VERTICAL is also used for to regularize of grout lines (up to a depth of 1 mm) on tiled surfaces before applying **ONE®** and **ONE® FLOORING** systems (refer to the respective technical data sheets for application details).

In this case, before overapplication, refer to the waiting times shown in the following table:

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Timetable for over-laying ONE® and ONE® FLOORING

| Temperature of Application | Over-laying in |
|----------------------------|----------------|
| 20°C | 8 h |
| 15°C | 12 h |
| 10°C | 18 h |
| 5°C | 24 h |
| 0°C | 24 h |

SURFACE PREPARATION

Thoroughly clean and level the substrate, removing dust, loose or friable material, and any foreign or non-adherent substances.

Any missing volumes (from 2 to 22 mm) must be restored before applying **ONE® VERTICAL** using **PRE-ONE®**, a quick setting premixed mortar suitable for application at low temperatures (0°C) and in presence of moisture.

After applying **PRE-ONE®**, allow a minimum curing time of 12 hours at a +20°C (for different temperatures, refer to the corresponding technical data sheet) before overapplying **ONE® VERTICAL**.

Sand the **PRE-ONE®** surface and remove all dust before applying the liquid membranes.

RECCOMENDATIONS

Do not add additives.

Do not use the product if the packaging is damaged.

Do not add water or solvents.

WARNINGS

All work tools must be clean and dry.

Close the packaging immediately after use. High or low storage temperatures may affect the product's viscosity. To ensure optimal workability, we recommend storing **ONE® VERTICAL** at temperatures close to +20°C for at least 24 hours before use.

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APPLICATION

Before use, briefly mix the product (manually or with a low—speed drill) until a homogeneous consistency is achieved. **ONE® VERTICAL** is ready to use and does not require primer or topcoat. The product can be applied with a metal trowel brush, short-pile roller, or airless pump (e.g. LARIUS series ZEUS, DRAGON, or THOR). For further specifications, please contact WINKLER TECHNICAL DEPARTMENT.

Apply the product in single coat, ensuring no discontinuities are left.

CONSUMPTION

Vertical surfaces: 350-400 g/m² in a single coat

Grouting: 300 g/m² in a single coat

PACKAGING

5 -20 kg buckets

CLEANING AND MAINTENANCE

For fresh product, clean tools with denatured ethyl alcohol.

For dried product, remove mechanically.

If it becomes necessary to clean **ONE® VERTICAL** surface over time, use a 1:1 solution of water and denatured alcohol.

STORAGE

The product in its original and undamaged packaging, can be stored for up to 12 months.

Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

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SAFETY INSTRUCTIONS

PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

TECHNICAL FEATURES (average value)

| FEATURES | STANDARD | RESULT |
|------------------------------|-------------------|--|
| Appearance | - | Liquid paste |
| Colour | - | White – Light grey – Grey – Red – Terracotta -Green |
| Specific weight at 20°C | UNI EN ISO 2811-1 | 1,40 ± 0,05 g/cm ³ |
| Solid content | UNI EN ISO 3251 | 98 ±1 % |
| Brookfield viscosity at 20°C | UNI EN 8490 | 22.500 ± 1.000 cps |

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PRODUCT PERFORMANCE IN SERVICE

| FEATURES | STANDARD | RESULT |
|--|---------------|-----------------------------------|
| Operating temperature | - | -30°C to + 80°C |
| Weathering resistance | - | Excellent |
| Resistance to UV rays | - | Excellent |
| Low temperature flexibility (-26°C) | ASTM D 522 | No break |
| Tensile strength | ASTM D 2370 | 1.100 PSI – 7.5 N/mm ² |
| Elongation after breaking point | ASTM D 2370 | 60 % |
| Elongation at breaking point after 1.000 hours of accelerated weathering | ASTM D 2370 | 47 % |
| Resistance to negative pressure | UNI EN 8298-8 | 4 bars |
| Resistance to positive pressure | UNI EN 1928 | 6 bars |
| Water absorption after 24 h | ASTM D 471 | ≤ 0.1% |
| Water absorption after 7 days | ASTM D 471 | ≤ 0.5% |
| Permeability class | UNI EN 1931 | SD1 (>0.5<1) |

ADHESION TO SUPPORT ACCORDING TO UNI EN 1542

| ADHESION TO SUPPORT AFTER 14 DAYS | |
|---|--------------------------|
| Concrete ¹ | ≥ 2,60 N/mm ² |
| Tile ² | ≥ 1,25 N/mm ² |
| ADHESION TO SUPPORT AFTER 14 DAYS OF WATER IMMERSION | |
| Concrete ¹ | ≥ 2,0 N/mm ² |
| Tile ² | ≥ 1,10 N/mm ² |
| ADHESION TO SUPPORT AFTER 14 DAYS OF pH 2 WATER IMMERSION | |
| Concrete ¹ | ≥ 1,80 N/mm ² |
| Tile ² | ≥ 1,25 N/mm ² |
| Metal | ≥ 2 N/mm ² |

Notes:

¹ Concrete delamination

² Tile break

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VOLATILE ORGANIC COMPOUNDS EMISSION

| PARAMETER | MAX. ALLOWED CONCENTRATION ($\mu\text{g}/\text{m}^3$) |
|--------------------|---|
| TVOC after 3 days | ≤ 750 |
| TVOC after 28 days | ≤ 60 |

Test performed by the EUROFINS Institute according to EN 16516, ISO 16000-3/6/9/11 and ASTM D5116-10. Test report n. 392-2017-00404102_G_EN_02.

The product complies with the requirements of Directive 2003/53/EC.

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