



# DEFENDER S

Solvent-based hydrophobic impregnant treatment for the protection of the joints of terraces and balconies



**DESTINATION** → Joint of terraces and balconies, outdoor tiled surfaces.

**PROPERTIES** → **DEFENDER S** is a product based on **silicone catalyzed resins dissolved in solvent mixture**, for the **hydrophobic protection of the joints of terraces and balconies**. Thanks to its particular composition and to its low viscosity, the product shows a **high degree of penetration** and an important and deep **water-repellent action**.

The elasticity of the silicone resins allows the product to hydrophobise also the joints where there is presence of **small cracks** (not greater than one millimeter of thickness). The water repellent action **will prevent water to penetrate into the joints and it will prevent the destruction by frost during the winter and the formation of mould**.

**DEFENDER S** does not change the color appearance of the treated materials and does not substantially change its breathability. **DEFENDER S** also shows a high resistance to UV rays.

**USE** → **DEFENDER S** can be applied on surfaces that are **absorbent, perfectly clean and perfectly dry**. If there is presence of cracks, fissures or cavities larger than 1 mm on the joints, **they must be preventively filled** and resolved through precise operations. **DEFENDER S** is **ready-to-use** and can be applied with **low-pressure vaporizer, soft brush in natural fibers or roller**. Apply the product in **at least two hands**, waiting the complete drying of the first one before applying the second. For high-porosity joints, it is recommended to apply the product **up to saturation of the support**. Remove the excess of product with cloths and / or absorbent paper before it dries (10-15 minutes) if it expands above the tiles of the terrace. Wait at least 48 hours in order to evaluate the final effectiveness of the treatment. Always perform preliminary tests on the surface that has to be treated, in order to avoid possible undesirable effects.

**YIELD** → Stone and terracotta: approximately **7-10 m<sup>2</sup>/lt** of product (complete treatment).

Clinker, porcelain tiles and ceramic tiles: approximately **15-20 m<sup>2</sup>/lt** of product (complete treatment).

## TECHNICAL DATA

- **APPEARANCE:** transparent liquid
- **WATER ABSORPTION REDUCTION:** >80% \*
- **SPECIFIC WEIGHT:** 0,79 Kg/l ± 0,1

\* values obtained in laboratory tests, in common practice they can undergo even important variations.

## PACKAGING

- 1CR018L1C** → 12 x 1 liter plastic **BOTTLE**
- 1CR018L5** → 2 x 5 liters plastic **TANK**

**SPECIFICATIONS** → Water repellent impregnating agent based on special silicone resins catalysed in a solvent mixture, specific for the hydrophobic treatment of joints on terraces, balconies and external paving, also tiled (such as **DEFENDER S** by CIR). It must have a reduction in water absorption > 80%. It must not alter the chromatic appearance of the support, it must have high resistance to UV rays and must be easily applied by brush, spray or roller. It must be reversible. It must be equipped with a 16-section safety sheet as required by current legislation.

## WARNINGS

- Product intended for professional use.
- Operating temperature + 10 ° C / + 30 ° C.
- Carefully protect the surfaces to which the product is not intended.
- Do not apply in conditions of high humidity, imminent rain and in full sun conditions.
- Do not smoke or use naked flames during the application.
- Equip operators as required by current safety regulations.
- Properly ventilate enclosed spaces during use of the product.

All information contained in our records correspond to our best knowledge of current techniques and cannot be considered binding or challenging as the real application conditions, verifiable case, may also result in major changes of both practices described above and the results obtained. Perform preliminary tests to determine if the product is suitable for the intended or not. We decline any liability for any damage resulting from improper use or misuse of the product. Do not litter in the environment. This data sheet replaces all previous versions.