

TECHNICAL DATA SHEET

REV: 06/01/2018

www.protectit.ie



PROTECTiT
SPECIAL PROTECTION

PROTECTiT 100

A Surface Oil and Water Repellent for Natural Stone, Concrete and Granite



PRODUCT DESCRIPTION

- ProtectiT 100 prevents airborne dirt and stains from adhering to the surface allowing easier removal of chewing gum and graffiti
- Reduces surface degradation as atmospheric contaminants no longer stick to the surface
- Does not alter the aesthetic of the treated surface (invisible protection) or change its colour.
- A treated surface will remain moisture and vapour permeable.
- Easy to apply to all surfaces, you can use the surface within 1 hour of application.
- Helps reduce further on-going maintenance and costs on a protected surface.
- Prevents surfaces from deteriorating through repeated "Freeze/Thaw" cycles.
- Suitable for ground surfaces with high levels of foot traffic.
- UV resistant. Non Flammable. Non toxic. Environmentally Friendly.
- Independent tests prove that a vertical surface treated with PROTECTiT 100 improves thermal insulation value by 16% (it removes the cold wall syndrome associated with water saturated walls)

APPLICATION

Always test apply on a small hidden portion of the substrate before applying

- **Substrate Quality:**
Cracks must be repaired using a concrete/mortar repair system
Moisture content should be $\leq 5\%$ to a depth of 1cm.
- **Substrate Preparation:**
Clean, free from dust, dirt, oil, efflorescence, organic growth and old paint films.
- **Tools:** ProtectiT 100 may be applied using low pressure spray, HVLP, brush or roller. Ensure application is from bottom to top on vertical surfaces taking care not to let the product run.

KEY FEATURES

- Dry in less than 1 hour, shower proof after 4 hours
- Use on vertical and horizontal surfaces/interior and exterior
- Will not change the appearance of a treated surface
- Improves the thermal insulation value of a treated surface
- Allows the surface to breathe
- Prevents water and oil ingress
- Up to 10 year performance on horizontal surfaces*
- Up to 15 year performance on vertical surfaces*

TECHNICAL DATA

- **Chemical Composition:**
Aqueous fluoropolymer dispersion.
- **Density:** 1.0kg / lt @ 25°C
- **Chemical Resistance:** Mild acids and alkalis, water and deicing salts.
- **Coverage:** Dependant on porosity
- **VOC Content:** 0.0g / litre

*when applied by a trained approved applicator

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APPLICATION INSTRUCTIONS

- PROTECTiT 100 may be applied using low pressure spray, brush or roller. Ensure application is from bottom to top on vertical surfaces taking care not to let the production run. Any subsequent applications must be applied “wet on wet”.
- Re-application: Subsequent applications should ideally be applied before the previous application has dried, however on horizontal surfaces which have been pre sealed before grouting a reapplication can take place after grouting has been cleaned thoroughly.

A trial area should be completed to calculate the correct coverage rate as the porosity on different materials can differ greatly.

- PROTECTiT 100 cannot be re-applied after curing as there will be a loss of adhesion.

APPLICATION CONDITIONS/ LIMITATIONS

- PROTECTiT 100 is unable to work if applied over non-absorbent surfaces.
- Efflorescence must be treated with Efflorescence Remover before application of PROTECTiT 100.
- Substrate Temperature: +5°C to 30°C.
- Ambient Temperature: +5°C to 30°C.

DO NOT APPLY ON NON ABSORBENT SURFACES

COVERAGE

- Architectural Concrete: 4-6 SqM/Ltr
- Block Paving: 5-8 SqM/Ltr
- Porous-Natural Stone:
(Limestone, Sandstone): 2-5 SqM/Ltr
- Low Porosity Stone:
(Granite, Marble, Slate, Terracotta): 8 – 16 SqM/Ltr

Coverage rates vary with substrate porosity.

All surfaces can be protected by applying one saturated coat of Protect iT 100 or can be applied in 1-3 coats ensuring that each subsequent coat is applied before the previous coat has dried known as a “wet on wet” application. After 1 -2 hours a simple water beading test can be carried out to ensure full efficacy. A small trial area is recommended to calculate the true consumption as a substrates porosity can vary.

STORAGE

Keep in a dry place (between 5°C and 30°C).

Storage: 24 months following production date when kept in original unopened container. Immediately after you have finished clean all tools and equipment with water by an approved applicator.

RECOMMENDATIONS / CURING

- Curing Treatment: Do not apply PROTECT iT 100 if rain is expected within 4 hours. Water repellency is evident after initial curing but may take up to 7 days to reach 100% efficacy.

HEALTH AND SAFETY

- Respiratory Protection: Under normal conditions of use, where adequate ventilation is available, no special respiratory protection equipment is needed.
- Hand Protection: Wear PVC gloves.
- Skin Protection: Wear protective clothing over exposed areas of skin.
- Eye Protection: Wear safety goggles.
- If Swallowed: Do not induce vomiting. Contact a doctor or a specialist.
- KEEP OUT OF THE REACH OF CHILDREN
Please refer to the Material Safety Data Sheet.
Transportation Class, N/A.

TECHNICAL SUPPORT

For technical information on the product please visit our web site: www.protectit.ie

Important: The content of this documentation is based on our experience of the product. We expressly decline any liability in the event of failure by the user to comply with the recommendations and conditions of said products, notably but not exclusively in the event of incorrect application by an unqualified person(s) or use of products not compatible with this product(s) or unsuitable weather conditions. For Further information refer to the safety data sheet. Formal clarification on all matters relating to application and suitability for use of the product(s) should be sought from us prior ordering