

# TECHNICAL DATA SHEET

06/01/2018

www.protectit.ie



**PROTECTiT**  
SPECIAL PROTECTION

# STORM DEFENCE

Powerful water repellent masonry cream

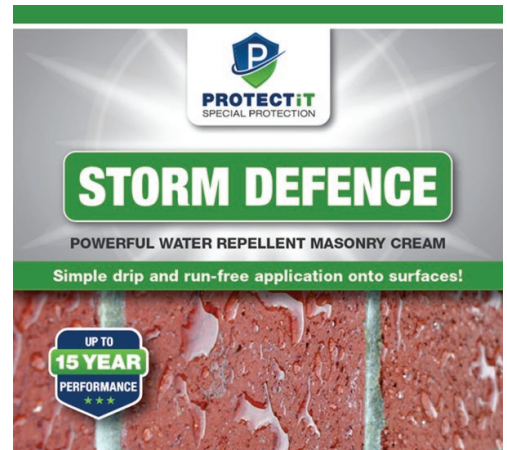
## PRODUCT DESCRIPTION

- Storm Defence is a ready-to-use cream that has been specially formulated the treatment and protection of facades.
- Storm Defence penetrates over 10mm and is Class II, hydrophobic impregnation to BS EN 1504-2.
- Storm Defence penetrates the substrate and blocks water ingress, humidity and airborne contamination that cause surface degradation and deterioration. It is effective with micro-cracks up to 0.3 mm.
- Storm Defence is ideal for protecting building facades such as bricks, brick slips, render, concrete and GRC cladding systems. It increases durability and reduces long term demands for repairs.
- Storm Defence protects building substrates from: Salt Efflorescence
- Freeze/Thaw Damage, Airborne Contaminants, Moss and Algae, Storm Defence is a VOC free Silane Cream which utilises the latest nano-technology.

## APPLICATION

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

- The surface must be clean and free of any trace of oil, grease, cleaning product, dust, efflorescence, paint or any other substance that reduces absorption of Storm Defence into the surface.
- All concrete repairs must be completed before commencing application of Storm Defence.
- Apply Storm Defence to the whole surface to be protected, including repaired areas. Storm Defence must be applied to saturation.
- Storm Defence may be applied by brush, roller or airless spray. Apply in one continuous application until the surface is saturated. The dosage will vary according to the porosity of the substrate. Drying time: 4-24 hours under normal weather conditions.
- Apply the product to saturation from the bottom upwards avoiding any runs. Use Moss and Algae remover or Efflorescence remover if required.
- Storm Defence will fluidise on exposure to the atmosphere, go clear and absorb into the surface of the substrate.



## KEY FEATURES

- Simple, drip-free application with unproblematic overhead workability
- Water and solvent-free
- Protects against wind or storm driven rain (hydrostatic pressure).
- Extraordinary penetration depth, due to the long contact time with the material surface
- Up to 15 year performance



Roller Application



Product Fluidising and Absorbing



Cured Facade



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### THERMAL INSULATION PROPERTIES

Water is a better conductor of heat than air. This is important when considering the amount of energy required to maintain the ambient temperature inside a house. A surface treated with Storm Defence will not “wet out” but still allow the substrate to breathe meaning that an increased level of insulation is achieved following treatment.



**BEFORE**

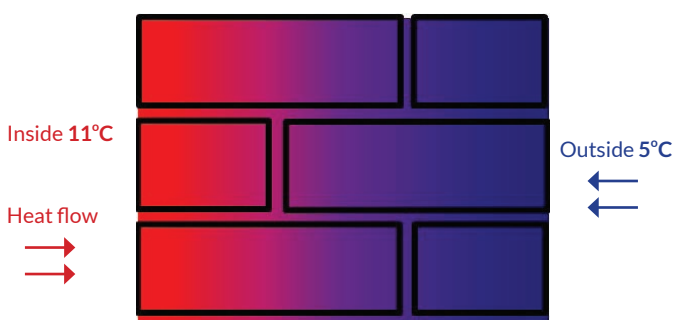
Untreated substrate, high levels of heat loss (Red)



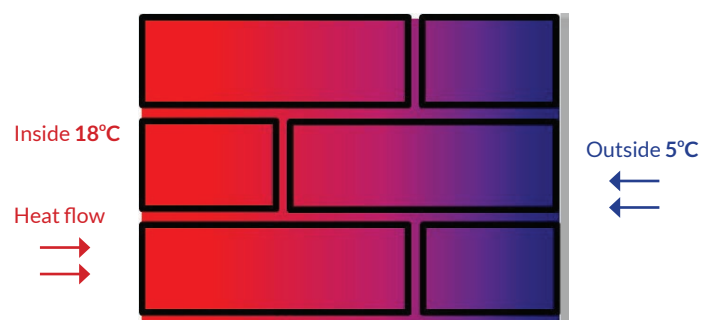
**AFTER**

Storm Defence treatment, Improved insulation from treatment (Blue)

The increased insulating power of a Storm Defence treated surface will serve to lower energy bills and therefore carbon footprint. This also offers a very quick return on the initial capital outlay for the treatment.



1: Damp Untreated Substrate, High U-Value, Thermal Loss



2: Storm Defence treatment, Low U-Value, Dry Substrate

Both walls internally heated to 20°C, the rate of heat loss through conduction was measured for an external temperature of 5°C. Application of Storm Defence allows internal room temperatures to be maintained using significantly less energy.

### ADVANTAGES

- Protects against Chloride attack
- Increases the service life of concrete.
- Fully efficient within 1 week.
- Excellent durability and penetration
- Suitable for a wide variety of building substrates.
- Effective on structures subject to corrosion agents and de-icing salts.
- Effective under high humidity conditions.
- Non-film-forming, allows the support to breathe.
- Silicone-free and invisible after drying
- Excellent ageing, UV-resistant, does not yellow.

### TECHNICAL DATA

- **State:** Cream
- **Colour:** White
- **Odour:** Perceptible odour
- **Relative Density:** 0.85
- **Coverage:** 200-400g/M2
- **Packaging:** 5, 20 and 1000 ltr Units

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## RECOMMENDATIONS

- Wear protective gloves and glasses, and appropriate clothing whilst using the product.
- In order to prevent contamination with bacteria and fungus spores from the ambient air, the containers should only be opened to remove the product required and be subsequently closed once more. In particular when using plastic drums, see that no dust or dirt from the atmosphere falls into the open drum. Close the drum immediately after the product has been taken out.
- Curing Treatment: Do not apply if rain is expected within 4 hours. Water repellence is evident after initial curing but may take up to 7 days to reach 100% efficacy.
- Do not apply during rain or frost and when surface and air temperature is < 5°C and > 30°C.
- Notes: The technical data provided is based on laboratory tests and some variations may occur on large areas and unknown substrates.

## STORAGE

- Keep in a dry place (between 5°C and 30°C).
- Storage: 6 months following the production date when kept in the original unopened container.
- Immediately after you have finished cleaning all tools and equipment with water.

## HEALTH AND SAFETY

- **Respiratory Protection:** Under normal conditions no special respiratory protection equipment is needed.
- **Hand Protection:** Wear domestic gloves.
- **Skin Protection:** Wear protective clothing over exposed areas of skin.
- **Eye Protection:** Safety glasses with side-shields.
- **If swallowed:** Do not induce vomiting. Contact a doctor or a specialist.
- **KEEP OUT OF THE REACH OF CHILDREN**

## TECHNICAL SUPPORT

For technical information on the product please visit our website:  
[www.protectitsp.ie](http://www.protectitsp.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