



## TECHNICAL DATA SHEETS

### CLEARSHIELD

Clearshield is a colourless water-repellent formulated for use on porous exterior surfaces. Based on UV resistant siloxane resins, it is alkali resistant and can therefore be used in situations where other siloxane-based water repellents are not suitable i.e. newly pointed brickwork. Clearshield can be used on old and new buildings to protect against penetrating damp and to keep masonry clean. Clearshield will not block pores in masonry so water vapour is able to escape, thus preventing the "spalling" associated with less advanced products. Note: This product is only designed for above ground masonry surfaces.

#### Where can it be used

- New build
- Residential
- High Rise Flats
- Social Housing refurbishment
- Public Buildings
- Commercial

#### Recommended surfaces

- Concrete
- Stone
- Brick
- Cement rendering
- Pebbledash
- Blockwork

#### System features & benefits

All kinds of pollution contribute to the deterioration of buildings, causing irreversible damage to the surface. Permashield masonry coatings protect in the following ways:

- Excellent Adhesion
- Resistant to UV
- 15 Years Life Expectancy
- Allows Substrate to Breathe
- Highly Weather Resistant
- Outstanding Durability
- Water Repellent
- No Peeling or Blistering
- European VOC Legislation

#### Surface preparation

All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algal growth, lantance and all traces of mould release oils. Permashield Degreasant Agent should be used where surface contamination is present.

Remove all loose or defective paint or powdery residues by thorough brushing and scraping, using a stiff fibre brush. This can also be achieved by medium/high pressure water blasting the surface. Avoid the inhalation of dust. Wear suitable face mask if dry sanding. Where moss, algae or similar growths have occurred, treatment with Permashield Multi-Surface Fungicidal Wash should be undertaken after the blasting process. When white incrustation or efflorescence appears on the masonry surface after cleaning, apply Permashield Efflorescence Remover.

All cracks should be raked out and repaired. Hairline crack up to 0.3mm can be 'bridged' by Clearshield. Rust, tar and bitumen stains must also be removed with a non-detergent cleaner prior to treatment.

## Application

Wooden and metal windows/door frames and glass surfaces should be covered up before treatment, since removal of silicone resin splashes after drying can be very difficult. Splashes should be removed as soon as possible using soapy water or if necessary a solvent.

Shake well before use. Clearshield is supplied ready to use.

Application by roller, brush or spray application. Brush or roller is recommended if the areas to be treated are small or if the wall has a large number of windows. Special care should be taken to ensure that sufficient product is applied. 1lt per 3.5 square meters per coat. At least two coats should be applied wet on wet. Spray method is recommended when treating large areas. Clearshield can be applied by either a knapsack spray or piston pump and spray lance. Spray pressure should be kept as low as possible – the solution should be seen to flow a stream from the spray lance rather than a spray mist.

Application should start at the highest point working from side to side allowing `run down` of the fluid for 6" to 12". If treatment is halted for any reason it is advisable to make a light chalk mark to indicate where treatment has ceased. It is important that the coating is uniform and that sufficient Clearshield is applied. It is therefore advisable to flood coat twice on most surfaces, being applied wet on wet. On poorly absorbent surfaces one coat of Clearshield will usually suffice.

## Technical information

**PACK SIZES: 5, 10, 20 & 25TL**

### Film Properties

**Chemical Resistance:** Resistant to mild atmospheric fume attack and to the salts in new mortar, rendering and similar surfaces.

**Heat Resistance:** Not suitable for use on heated surfaces.

**Water Resistance:** Resistant to the levels of atmospheric humidity normally experienced in exterior environments.

### Composition (nominal)

**Pigment:** N/A

**Binder:** N/A

**Solvent:** White Spirits

**Application Method:** Brush, Roller or Spray

**Drying Times:** Drying time will vary depending on the absorbency of the surface, temperature and humidity at

the time of application

**Practical Coverage:** The spreading capacity of this product will vary considerably according to the roughness and porosity of the surface.

**Concrete:** Up to 25m<sup>2</sup>-per 5 litres first coat / 50m<sup>2</sup>-second coat

**Brick:** Up to 16m<sup>2</sup>-per 5 litres first coat/ 34m<sup>2</sup>-second coat

**Rendering:** Up to 24m<sup>2</sup>-per 5 litres first coat/34m<sup>2</sup>-second coat

## Cleaning

Remove as much product as possible from application equipment before washing. Replace lid firmly. Wash equipment immediately with water. Do not empty product into drains or watercourses.

## Health & Safety Information

### THIS PRODUCT IS FOR EXTERIOR USE ONLY

- Ensure good ventilation during application and drying.
- Do not breathe spray. When applying by spray, wearing a cartridge mask of Assigned Protection Factor 40 x OEL for particulates is recommended. This should be confirmed by your COSHH assessment.
- Avoid contact with skin and eyes. When applying it is advisable to wear eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water or a proprietary skin cleaner. Do not use solvent, thinners or white spirits.
- Keep out of reach of children. Do not use or store by hanging on a hook. Do not empty into drains or watercourses. Some local authorities have special facilities for disposing of waste paint.
- Avoid release to the environment. Before use refer to the safety data sheet.
- Avoid the inhalation of dust. Wear a suitable face mask if dry sanding
- Read the label before you buy: VERY HIGH VOC CONTENT MORE THAN 50% VOCs (Volatile Organic Compounds) contribute to atmospheric pollution.

*Disclaimer: The information given in this Data Sheet is for guidance only and is correct to the best of our knowledge. Any person using these products does so at their own risk and we cannot accept liability for the performance of the product, nor for any loss or damage. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not considered a warranty or quality specification.*