



Lease Life
to Man-Made
Structures

SUPERSHIELD

CLEARSEAL

Water-based Repellant Sealer for Concrete



PRODUCT DESCRIPTION

SUPERSHIELD CLEARSEAL is a ready-to-use water-based sealer that penetrates deep into the concrete and masonry surfaces and causes hydrolysis in the pores and capillaries, forming a weather and chemical barrier without changing the appearance. It is specially formulated to work by itself and in conjunction as a topcoat with Supershield Crystalspray, as well as with Supershield Hardseal. SUPERSHIELD CLEARSEAL is applied by itself to concrete, bricks, stone, masonry surfaces, terracotta tiles, pavers, grout, and any neutral substrates to form a weather and chemical barrier without changing their original appearance.

RECOMMENDED USES

- Prevention of deterioration arising from soluble salts and freeze-thaw damage in reinforced concrete and porous block or brickwork
- Building facades and civil engineering structures
- Suitable for use on exposed horizontal and vertical surfaces, including bridges and parking decks, barriers and marine structures
- To help prolong the design or service life of buildings and civil engineering structures

FEATURES AND BENEFITS

- Quick-acting and easy to apply
- Does not alter the appearance of the surface
- Long-lasting and cost-effective
- Deep penetration protects it from weathering and ultraviolet rays
- Reduces chloride ion intrusion and its negative effects through the repelling of water
- Manages corrosion to expand the service life of reinforced concrete
- Not a vapor barrier allowing treated surfaces to “breathe”
- Reduces water absorption
- It is water-based, non-toxic, and eco-friendly



TECHNICAL DATA

General Characteristics

PROPERTY	VALUE
Color and Appearance	Colourless Liquid
Density	1.14 g/cm ³
pH Value	8.0 - 8.5

Performance Characteristics

TEST NAME	TEST METHOD	PERFORMANCE
Depth of Penetration	EN 14630	Class II > 10mm
Water Absorption & Resistance to Alkali	EN 13580	Absorption ratio < 7.5 % compared with untreated specimen < 10 % after immersion in alkali solution
Drying Rate Co-efficient	EN 13579	Class I > 30%
Loss of Mass after Freeze thaw test	EN 13581	Loss of mass 20 cycles later than in non impregnated samples



APPLICATION GUIDELINES

Surface Preparation

Surfaces to be coated must be absorbent, sound, clean, and free of oil, grease, efflorescence, and other contaminants. Completely remove previous membrane coatings and do not apply them to non-absorbent surfaces. The surface must be predominately dry. New concrete should be cured for 28 days. When SUPERSHIELD CLEARSEAL is applied as a top coat in conjunction with Supershield Crystalspray or Supershield Hardseal, prior curing of the Supershield Crystalspray and Supershield Hardseal treatments for a minimum of 3 days is required.

Coverage (approximate): 5 m²/Litre/coat.

Application

SUPERSHIELD CLEARSEAL can be applied as a single coat using a brush, broom, or low-pressure sprayer. Apply evenly with steady, even strokes; do not flood the surface. Work SUPERSHIELD CLEARSEAL into surface irregularities and apply liberally. Excess coating might form white patches on the substrate, which can be washed off with water.

HEALTH AND SAFETY

SUPERSHIELD CLEARSEAL contains chemicals that may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during the handling of this product. If the product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms persist.

STORAGE

SUPERSHIELD CLEARSEAL must be stored at room temperature. Cold temperatures may cause the product to crystallize. When stored in a dry place in unopened, undamaged original packaging, the shelf life is 24 months. Do not allow the product to freeze. Repeated freezing and thawing might cause damage to the product.

PACKAGING

Available in 25-Litre carboys, 200-Litre drums, and 1000-Litre bulk containers

WARRANTY

Supershield warrants that its products will be free from material defects and will comply with the specifications provided in their respective technical data sheets. If any product is proven to be defective, Supershield's liability will be limited to the replacement of the product. Supershield will not be liable for any incidental or consequential damages. No other warranties, express or implied, shall apply, including warranties of merchantability or fitness for a particular purpose. It is the user's responsibility to determine the suitability of the product for their intended use and to assume all risks and liabilities associated with its application. Supershield reserves the right to alter the properties of its products without prior notice.