



MULTIGUARD® PRIMESHIELD®

Deep Penetrating Permanent Concrete Protection Chemical

Permanent Protection for
AIRPORT RUNWAYS, BRIDGES, TUNNELS, FLYOVERS, PARKING BAYS,
ROAD AND HIGHWAYS, ANY EXPOSED RCC STRUCTURES

IF IT IS MADE OF CONCRETE THEN IT NEED PRIMESHILD
PROTECTION

Fast and easy one coat application!

PRODUCT DESCRIPTION:

Multiguard® PrimeShield® is single component water based crystalline coating for concrete protection with Deep Penetrating properties. Product is designed to protect Reinforced Cement Concrete from water associated problems such as Alkali Aggregate Reaction, Chloride ion penetration and repeated freeze thaw attack.

USES:

PrimeShield® is used to keep concrete reasonably dry by acting as hydrophobic as well as hydrophilic properties. A hydrophobic property does not allow water to go in, where as hydrophilic property generates billions of crystals to plug all porosity in the concrete. This dual action keeps concrete protected against the effects of freeze-thaw cycles, de-icing salts, carbon dioxide and other acid gases, dilute acids and alkalis.

This includes: Rigid damp proofing of water tanks, sealing internal basement and cellar walls against dampness, water leakage, protection of concrete structures in marine environments, external tanking of substructure concrete such as foundations and basement walls in new buildings.

Some of the examples are:

AIRPORT RUNWAYS, BRIDGES, TUNNELS, FLYOVERS, PARKING BAYS, ROAD AND HIGHWAYS, ANY EXPOSED RCC STRUCTURES.



Airport Runways



Flyovers



Exposed RCC structure





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TECHNICAL DATA:

Properties	Value
Appearance	liquid
Crack Bridging	0.3 mm
Coverage	3.7 to 4.9 m ² /kg/coat
Colour	Clear
Packaging	10 kg, 20 kg, 200 kg
Shelf Life	12 months at 25 °C

APPLICATION DATA:

PREPARATION:

The areas to be treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, all loose material and surface laitence removed and steel cleaned to bright metal preferably using wet grit or water blasting techniques or equivalent approved methods. Proper cleaning process will open the pores and capillaries of the concrete. This will allow deeper penetration of PrimeShield and hence durable protection. The strength of the concrete sub-base should be a minimum of 20N/mm².

PLACING:

PrimeShield® can be applied by brush, roller or spray techniques. Care must be taken to ensure that air is not entrapped onto the surface. Apply the first coat, approximately 1mm thick, onto the prepared substrate. To ensure total protection, a second coat should be applied in the same way, after waiting approximately 30 minutes depending on temperature (when the first coat is stable but not fully set).

CLEANING:

All tools should be cleaned with water immediately after use.

CURING:

Normal concreting procedures should be strictly adhered to.

STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C.





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IMPORTANT POINTS:

Apply only to clean, sound substrates. Concrete should be saturated but surface-dry and free of water backpressure. Care should be taken when curing in hot, sunny or windy conditions. Discard PrimeShield packages which has been subjected to freezing temperatures.

Please consult our technical department for further information. The product, PrimeShield provided here is for 'Do-it-Yourself', (DIY).

WARRANTY

Multichem warrants **PrimeShield** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **PrimeShield**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **PrimeShield**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.

