



HYDRO SHIELD

Silicon Siloxane Based Water Repellent, Ready To Use

Dubond's Hydro Shield is a solvent free silicone micro emulsion silicon and siloxanes. The ready to use, aqueous solution of Hydro shield serves as a high quality, general purpose water repellent for impregnating and priming mineral and even alkaline substrates.

Damage to facade is always due to moisture, rain and surface water. Salt water damage occurs in porous building materials, only when moisture is present. The sources of salivation are deicing salts, rising dampness and reaction between the binder used in facade materials and paints. In addition to that, building materials have an inherent salt content. The moisture transports this salts to the surface of the substrate where it crystallization out. Salts are not only deposits on the surface but it cause the hydration and crystallization pressure. This builds up finally led to embrittlement and crumbling away of the surface. Acid rain i.e. sulphuric acid is by product in the form of sulphur dioxide by burning of industrial fuels, bound to particle of dust and droplets of water, is the primary cause for corrosion. Sulphuric acid reacts with the carbonates, the binder in mortars, lime washes, concrete, stones etc.



Attack by moss and micro-organisms such as fungi and algae which are consequence of protected wetting of facade surfaces. The above mentioned facade damages can be diminished by impregnation with water repellent agents. The main aim of this is to form "hydrophobic" or dry zone on surface. The dry zone are not ideal for biotopes mosses, fungi, algae. The silicon molecules of Hydro shield do not clog the pores and so the surface retains its permeability to water vapour and "breathes". Therefore treated buildings do not suffer from condensation damage. Buildings treated with Hydro shield may absorb very little water and can release it again readily in dryer conditions

Green Building Rating



Low Emission



Low Ecological Impact



Health Care



Water Based

Areas of Application

Hydro shield is recommended for a "Hydrophobisation" (water repellency) of facades . It is used as a general purpose water repellent for absorbent, mineral and even alkaline substrates, such as natural stone, brick concrete and sand lime brick, as well as for mineral paints and stuccos. HYDRO SHIELD is also suitable as a primer for dispersion based paints and stuccos, silicone resin paints and stuccos, concrete coatings, and as a water repellent for the in-plant treatment of lightweight aggregates and clay building materials, aerated concrete, sand-lime brick, fiber reinforced concrete and mineral fiber materials.

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Features & Benefits

- Solvent free silicone concentrate.
- Ready to use.
- Easily applicable by brush, spray or roller
- Impermeable. Prevents penetration of water and moisture through the surface.
- It aids in retaining the heat insulation properties of the wall because loss of heat through the wet brick is 1 ½ times greater than when it is dry.
- It protects the surface from attack of salty and acidified atmosphere
- It prevents from formation of efflorescence.
- It prevents the surface damage from water and frost attack.
- “Microporous”. Allows the substrate to breathe (good water permeability).
- Prevents the growth of microorganisms such as fungi and algae.
- Their low viscosity and surface tension enable them to penetrate deeply in the material Excellent resistance to UV rays and weathering conditions.
- It performs well in a temperature ranging from -20°C to 50°C It performs well on alkaline substrates

Application

Visible cracks must be sealed by Du Flex PS 600, polysulphide, or polyurethane sealant and primer . This sealants are not attacked by the repellent Hydro shield. Brush application is the simplest method Flat brushes or rollers can be used for application, while solution is applied, as the success or failure of such treatment depends on this factor.

- Surface penetration is most important step before application to get best results and avoid failure
- The surface must be free from any loose materials, crumbling powdery encrusted walls, fungus, moss, oil, grease and mould release agents.
- Clean the surface using scrappers and wire brushes
- Then clean the walls with high pressure water, wait for 2 days for the surface to dry
- The walls must be dry before the application
- Use of acidic and alkaline chemicals, detergents, cationic surfactants should be avoided
- It is advisable to wait for 28 days for curing the fresh masonry / new concrete

Technical Information

| | |
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| Nature | Single component |
| Color | White liquid |
| Viscosity of flow cup B4 at 30 ⁰ c, seconds | 13 ± 2 |
| Specific gravity, at 30 ⁰ c gm/cc | 0.85 ± 0.02 |
| pH value | 7 - 8 |
| Dilution ratio | Ready to use |
| Intercoat period | Immediate wet on wet |
| Water repellency | Excellent |
| Breathing efficiency | Min 75 % |
| UV resistance & weather durability | Excellent |
| Efflorescence resistance | Excellent |

Coverage

HYDRO SHIELD covers approx. 50-55 sq.ft / liter. Minimum 2 coats are recommended.

■ Packing

1ltr, 5 ltr, 10 ltr, & 20 ltr container

■ Shelf Life & Storage

HYDRO SHIELD has a shelf life of at least 12 months, if stores in tightly closed original containers between 0°C and 30°C the containers must be protected against direct sunlight. The “Best use before end” date of each lot is shown on the product label.

■ Health & Safety

Avoid contact with skin and eyes, Incase of contact with eyes or skin, wash thoroughly with plenty of water and contact doctor.

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

Dubond Products (India) Pvt. Ltd.

C-3, 1001, Anushruti Tower, S.G. Highway, Thaltej,
Ahmedabad-380054. Gujarat - INDIA

Ph: +91-79-2685 6815

Email: info@dubond.in Website: www.dubond.in

Customer Care : +91 9377177771

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