




MIKIKO  **ISOTECH**
CREATING GREEN SOLUTIONS

HYDR  ***SAVE***
SUPERHYDROPHOBIC IMPREGNATION

WATER BASED
COLORLESS



HYDROSAVE® is a water based nano super hydrophobic coating. It is designed to impart water repellency to wide variety of mineral porous materials for prevention, repair and maintenance of the buildings. Unlike difference coatings, **HYDROSAVE®** does not seal the pores at the surface of building materials. But it penetrates into the pores and forms a nano layer on the pore walls. These pores no longer be wetted by water and the capillary uptake of water is prevented.

Water can no longer penetrate inside through capillaries, as water is a polar liquid and it cannot reach with non polar, hydrophobic surface.

Untreated surface of buildings are wetted immediately by water. In other words, drops of water spreads out and rapidly absorbed by building material. The surface treated with **HYDROSAVE®**, the drop of water is repelled and stands in the form of bead and does not penetrate inside. The pores on the surface may vary from 5 – 200 nm. But the size of **HYDROSAVE®** is only 1 – 3 nm .

Conventional water repellents give only a short term protection by forming a surface film. Long term protection is possible only by nano sized water repellent, which penetrates up to 20 mm into the surface providing capillary coating. The life expectation on the coatings is more than 10 years.

An unprotected building can absorb over 1 ltr of water per sq.ft in 6 hours. A concrete block can absorb 2 lts of water. This rain water absorption causes multiple damages to the buildings.

When the building materials come into contact with water, they absorb an amount of water which depends upon the porosity, resulting in penetration of water through the wall, cracks caused by swelling and shrinkage, destruction of concrete caused by corrosion of reinforced steel, lime leaching, chemical corrosion, binder transformation, etc.

BENEFITS:

- Minimizes/stops completely water absorption into the substrate.
- Helps in reducing spalling due to freeze-thaw efflorescence.
- Easiest way to repair and protect already leaking and old buildings.
- Prevents aging, scaling and salt burst.
- Water based. No solvents used.
- Easy application methods.
- Prevents structural damage.
- Completely Transparent Coating.
- Resistant against fungus, moulds & mildew.
- Excellent surface penetration offers excellent protection to the porous surfaces.
- Prevents electrical shocks due to wet leaking roofs.
- Prevents corrosion of reinforced steel used in construction.
- Enhances life of buildings.



LONG TERM RESULT:

HYDROSAVE® will last for 10+ years without losing its properties.

LOW COST APPLICATION & MAINTANANCE:

1 ltr of **HYDROSAVE®** can be applied to approximately 5 to 10 m². No maintenance required. All the forms of damages can be prevented or kept at bay for longer by means of creating **HYDROSAVE®** coated water repellent zone, which considerably stops uptake of water to keep the masonry surface dry.

COLOR:

HYDROSAVE® is a colourless liquid.

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