

# MasterProtect H 321

A water based, silane/siloxane clear water repellent for masonry surfaces.

## DESCRIPTION:

MasterProtect H 321 is a one component, water based silane/siloxane blend.

MasterProtect H 321 penetrates deep into the substrate where it reacts chemically. The reaction starts immediately as soon as the active ingredients get in contact with the substrate.

The reaction time depends on temperature, humidity and nature of the substrate. The treated surface does bead water shortly after application of MasterProtect H 321.

## TYPICAL APPLICATIONS:

MasterProtect H 321 is a clear penetrating silane/siloxane based water repellent for use on porous and semi-porous substrates such as clay and calcium silicate brick, honed limy-sandstone and sand-cement render.

## BENEFITS

### Aesthetics

Improves the aesthetics by reducing efflorescence. Surface appearance remains unchanged as MasterProtect H 321 penetrates into the substrate.

### Durable

Long term protection due to deep penetration. Ultraviolet and acid rain resistant. No influence on moisture vapour permeability.

### Cost effective

One layer only.

### Easy to apply

Ready to use, no dilution on site guarantees consistent quality. One component. Application equipment and spillages easily cleaned with soapy water.

### Environmentally friendly

Water based. Reduces volatile organic emissions into the atmosphere. No dangerous fumes.

## COVERAGE

Typically 1-4 m<sup>2</sup>/l on masonry surfaces. Coverage rates vary with nature and porosity of the substrate.

## APPLICATION

### SUBSTRATE PREPARATION

Surface to be treated must be clean and free from laitance, contaminants and previous water repellent treatments which could cause non-uniform absorption or white staining. Water jetting or sandblasting may be required to achieve the desired condition. Remove

efflorescence by dry brushing. Caulking and sealant work must be done prior to the application of MasterProtect H 321 and allowed to cure in accordance with the manufacturer's instructions.

### MIXING:

MasterProtect H 321 is ready for use, stir slightly.

### COLOUR:

Milky white liquid, when applied dries up invisible.

### APPLICATION:

The temperature of the surface, the air and the material should be between 10°C and 35°C during the application. Test a small area before starting general application to assure the desired results and coverage rates are obtained.

Only use low pressure, non-atomizing spray equipment. Application should be from bottom up to assist in uniform distribution of MasterProtect H 321. Apply in one operation to saturation, with a controlled rundown to a maximum of 20 cm. In certain cases, a mist coat of potable water before application may be necessary to help break the surface tension - this will ensure maximum penetration of the saturation coat.

### PACKAGING AND STORAGE

MasterProtect H 321 is supplied 20 l plastic cans. MasterProtect H 321 should be stored under cover and clear of the ground. Protect from freezing. Rotate stock in order not to exceed the shelf life of 12 months. Storage temperature should not exceed 35°C.

### CLEANN UPANDSPILLAGES

Equipment and incidental areas of over-spray should immediately be cleaned with soapy water to avoid eventual staining. MasterProtect H 321 will leave a visible residue on non-porous materials such as glass, metal and painted surfaces when cured. Dried, polymerized material can be removed by scraping with a metal blade. Protect plant life from over spray.

### HEALTH AND SAFETY

MasterProtect H 321 is essentially non-hazardous but it is recommended that gloves and eye protection should be worn.

Accidental splashes of the material to the skin and eyes should be immediately washed off with clean water. In the event of prolonged irritation, seek medical advice. A Material Safety Data sheet for this product is available on request.

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PHYSICAL PROPERTIES (*)	
Solid content	app. 7% by weight
Density	1,0 kg/liter
Flash point (ASTM D-3278)	> 100°C
Water absorption test (ASTM C-642)	95% reduction vs. untreated concrete
Early water beading: (TNO guideline)	Excellent within 1 hour

(\*) Typical values. All tests were carried out under temperature controlled conditions of 21°C.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

\* Properties listed are based on laboratory controlled tests.

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