

MASTERSEAL[®] 321B

Silane/Siloxane Based Single Coat Clear Water Repellent for Protecting Vertical Masonry Wall Surfaces

Description of Product

MASTERSEAL 321B is a single component, clear, penetrating water repellent which provides weatherproof protection for vertical surfaces such as clay, brick, sandstone or mineral render.

Fields of Application

To provide water repellent protection to:

- Concrete surfaces
- External balustrades of concrete or sandstone
- External brickwork or renders
- Porous stonework

Features and Benefits

- No significant reduction in moisture vapour permeability
- Long-lasting protection against wind-driven rain
- Improves the aesthetics of the façade by reducing efflorescence
- Surface remains unchanged from the designed appearance
- Water-based; reduces volatile organic emissions into the atmosphere in comparison with today's commonly used organic-solvent-based repellents
- Provides a much safer working environment for the applicator by minimising health hazards associated with volatile organic solvents
- Non flammable
- Ready for use; no dilution on site means consistent quality
- Overspray and equipment easily cleaned with soapy water
- Virtually no product evaporates during spray application, therefore more active repellent can reach its intended target at equal coverage rates
- Single application only
- Solvent free

Technical Data/Typical Properties^(a)

Solid content (approx) , wt-%	7
Density, kg/l	1.0
Flash point (ASTM D 3278-82), °C	>100
Penetration depth, *mm	1.5-10
Accelerated weathering (QUV) (ASTM 653)	No change After 1500 hours
Water absorption (ASTM C-642), % reduction	95
Early water beading (TNO guideline)	Excellent Within 1 hour

^(a)Typical values at 20°C

* approximate depending on substrate

Colour

Supplied as a milky white liquid. Invisible when dry.

Application Procedure

Preparation

Surfaces to be treated must be clean, dry and free from surface finishes and contaminants. Water jetting or sandblasting may be required to achieve the desired surface condition.

Pointing/mortar joints should be in good condition. Caulking and sealant work must be carried out prior to the application of MASTERSEAL 321B . Cure in accordance with manufacturer's instructions. Remove efflorescence by dry brooming or other means as necessary.



The Chemical Company

Application

The temperature of the surface, air and material should be between 10 and 35°C during application. Test a small area of the surface before starting general application to ensure that the desired results and coverage rates are obtained. Staining could occur on unsuitable dense surfaces.

While this product is far less harmful to plant life than solvent-based surface sealers, vegetation should be protected from over-spray. Equipment and incidental areas of over-spray should be cleaned immediately with soapy water to avoid permanent staining. MASTERSEAL 321B will leave a visible residue on non-porous materials such as glass, metal and painted surfaces when cured. Dried materials can be removed by scraping with a metal blade.

MASTERSEAL 321B is ready for use. Stir gently and apply by low pressure spray (Knapsack Hopper-type); the orifice size should be a maximum of 1mm. Application from the bottom up will assist in uniform distribution. Apply to saturation, with a controlled rundown to a maximum of 20cm. On dense substrates, e.g. hard stone, a mist coat immediately before general application will help to break the surface tension, assuring maximum penetration of the saturation coat. Apply in dry conditions when rain is not imminent within 2 hours.

Coverage

Coverage rates vary with the porosity and texture of the substrate. On brick they are typically 1 to 4m²/ltr/coat.

Packaging

MASTERSEAL 321B is available in 5 litre or 20 litre plastic containers.

Storage

MASTERSEAL 321B should be stored under cover, clear of the ground and stacked not more than 2 containers high. Protect from freezing. Storage temperature should not exceed 35°C.

Shelf Life

Rotate stock in order not to exceed the shelf life of 12 Months

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

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