

# INCRASIL 441

## masonry water repellent

# INCRA®

INCRASIL 441 is a penetrating water-repellent composed of silanes/siloxanes and high quality additives for mineral surfaces, such as masonry facades. The product is invisible after application, extremely water repellent and very durable. INCRASIL 441 is the result of intensive research and development: **a special product with a unique formulation**. It reacts on nano and micro scale with the surface and has an excellent adhesion to mineral substrates. It penetrates deep into porous masonry and forms a strong hydrophobic protection that is weather resistant. Due to the very special recipe the product has a very low solid content of appr. 1,2% that highly contributes to the sustainability and care of the environment.

### APPLICATIONS

- ◆ Walls and facades
- ◆ Impregnation of facades of brick, limestone, concrete, stucco, cellular concrete, natural stone, mortar joints and roof tiles.
- ◆ Hydrophobation of natural stone, such as sandstone in the case of monumental and old buildings.

### FEATURES & BENEFITS

- ◆ Unique formulation
- ◆ Low concentration due to dilution up to 1:39
- ◆ Very sustainable due to a low solid value
- ◆ Fast beading
- ◆ Waterbased and solventfree
- ◆ Safe to handle and virtually odourless
- ◆ Application at low temperatures of 5° C
- ◆ Ready for Kartstentube test (Rilem) 14 days
- ◆ Invisible after application
- ◆ Excellent penetration into the surface
- ◆ Prevents the absorption of rain
- ◆ Masonry stays vapour permeable
- ◆ Breathable, does not keep moisture fixed
- ◆ Indirectly increases insulation value
- ◆ UV-resistant, non yellowing
- ◆ Reduces mold and mildew, also lime run

### PRODUCT PROPERTIES

base	silane/siloxane and additives
components	1
solvent	water
colour	white
spec.weight	ca. 1,0 g/cm <sup>3</sup> at +20° C
solid content	ca. 1,2% (m/m)
pH-value	ca. 5,0 - 8,0 at +20° C
viscosity	ca. 1,2 mm <sup>2</sup> /sec dynamic at +20°
flash point	nonflammable
cured	after 7-21 days
usage	500-1.000 ml/m <sup>2</sup> depending on the porosity of the substrate
condition	liquid
storage	store in closed original packaging above +5° C, protect against sun, frost and extreme temperatures
packaging	25 Kg Jerrycans, 200 Kg Drums en 1.000 Kg IBC-Re-Collectcontainer
removal	according to local/regional/national regulations
shelf life	9 months after production date at +5° C to +30° C

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### HOW IT WORKS

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Thanks to innovative technology INCRASIL 441 is extremely responsive. In most cases the wall will show a lotus effect within several hours after application. This is advantageous if shortly after application, rain is expected.

INCRASIL 441 helps prevent spalling and cracking caused by freeze/thaw cycles. Once a facade has been treated with INCRASIL 441 it remains cleaner and is easier to clean.

The product contains no silicone oils, paraffin wax, or urethanes.

### HOW TO USE

All surfaces to be coated should be free of dirt, grease, algae, fungus, limerun, deposits, soap residues (surfactants) etc.. All cracks need to be pointed or caulked. All holes, gaps, cracks and defects to be repaired in advance with a well-approved repair method. May be applied to fresh masonry after 48 hours.

INCRASIL 441 is ready-to-use and should not be diluted. Mix thoroughly before use.

Do not apply if moisture content surface is greater than 15% as measured with an electronic moisture meter. No application during and soon after a period of frost and the surface should have sufficient time to fully defrost. The air, surface and product temperature must be at least +5° C. No application if snow or lower temperatures are to be expected within 48 hours. Do not apply when the relative humidity exceeds 80%. The area should be well ventilated.

Protect plants, shrubs, cars, windows, frames and other not to be coated areas with a plastic sheet against overspray. Remove overspray as soon as possible from windows, cars, metals and plastics to prevent stains.

Close the packaging fully after use.

Always apply the product on a mock wall or test panel to determine porosity, coverage and most suited application methods before starting general application.

1. INCRASIL 441 should be applied using low-pressure airless spray equipment.
2. Apply top-down sufficiently and evenly 'wet-on-wet' through irrigation.
3. Make sure that the surface becomes saturated.
4. Avoid application in windy weather, also avoid atomizing the product.

Safety Data Sheet conform REACH 1907/2006/EU and CLP 1272/2008/EU available on request.