

ISO STONE 1090

Product Data Sheet

Description:

Colourless protection against rain of exposed concrete structures, cement renders, cellular cement, facebricks, exposed concrete blocks, natural and artificial stone, etc.

Uses:

- Repair of plastered walls exposed to rain.
- Colorless water-repellent protection of period buildings or those of special architectural value.
- Water-repellent treatment for walls, face bricks and natural stone.

Technical Characteristic:

ISO STONE is a colorless liquid based on silicon compounds in water ideal for impregnating all absorbent mineral materials used in building. Applied to a porous surface, ISO STONE penetrates deeply and reacts with natural humidity to form a water-repellent layer inside pores and capillaries. Thanks to this property, ISO STONE forms an efficient barrier against aggressive agents present in the atmosphere, which are carried into the material by rainwater. ISO STONE does not form a film on the surface, therefore the material's permeability to water vapor is not modified and the appearance of the surface remains practically unaltered. ISO STONE has excellent resistance to the alkalinity present in cement materials and to ultraviolet rays.

Recommendation:

Impregnation with ISO STONE is unsuitable for waterproofing:

- Horizontal surfaces (terraces).
- Basements, water tanks.
- Walls subject to rising damp carrying salts.
- Lift wells and areas subject to water under pressure.
- Gypsum surfaces;
- Synthetic plasters and surfaces decorated with synthetic paint.
- Carry out a preliminary test to ensure no color changes take place on the substrate when ISO STONE is to be used on natural stones, colored renders or on other types of substrates that show no uniform absorbency.



Technical Properties:

Consistency :	fluid liquid
Colour :	transparent
Density (g/m ³) :	approx. 1.02
Dry solids content (%) :	approx. 5
Brookfield viscosity (mPa·s) :	approx. 10 (shaft 1 - 100 revs)
Dilution ratio :	ready to use
Surface drying time:	1-2 hours
Temperature range:	from +5°C to +35°C

Capillary action water absorption coefficient W24 (EN 1062-3) [kg/(m ² ·h ^{0.5})]	
facing bricks	0.04 (15.60 saturation)*
conventional render	0.05 (10.40 saturation)*
tuff stone	0.07 (6.80 saturation)*
cementitious smoothing layers	0.38 (15.60 saturation)*

-The figures in brackets refer to the same substrate not treated with ISO STONE 1090.

-The product is considered as class 111 according to EN 1062-3 standards with a value of W24 < 0.1, which corresponds with low water absorption



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Application procedure:

Preparing the substrate before application, it is essential to remove all dirt, dust, grease, oil, paint, salt laitance, moss and weeds from the surface that might prevent ISO STONE 1090 from penetrating deeply. For old surfaces, the choice of cleaning system will depend on the kind of dirt involved. Washing with cold water is generally sufficient. Cleaning with hot water or steam is particularly useful if there is grease or oil on the surface. If there is no surface dirt, scrub carefully with a scrubbing brush and remove dust with compressed air. Whatever the cleaning system used.

ISO STONE 1090 should only be applied to:
Dry surfaces. If water is present, it is unable to penetrate deep down into the material

Preparing the product:
ISO STONE 1090 is ready to use and should not be thinned with water.

Applying ISO STONE:
The efficiency and durability of ISO STONE's water-repellent action depend on the depth of penetration of the product. This parameter is directly proportional to the absorbency capacity of the material to be treated and the amount of impregnator applied. To apply ISO STONE evenly, we recommend using a back-pack spray gun for large surfaces, or a roller or brush. Apply several coats until the surface is completely saturated; apply each successive coat while the previous one is still wet. On substrates with poor absorbency, be careful not to form layers of the product during application. Go over the surface with a sponge float if necessary while the product is still wet.

- Do not apply ISO STONE on damp substrates or on substrates that are not well cured.
- Do not apply ISO STONE if the temperature is lower than +5°C or higher than +35°C (the surface must be dry in all cases and must never be exposed to direct sunlight).
- Do not apply ISO STONE if the level of humidity is higher than 85%.
- Do not apply ISO STONE if it is about to rain or in windy weather.

Coverage:

The consumption rate is heavily influenced by the absorbency of the substrate, and varies approximately from 0.20 -1 kg/m²
Listed below are several materials with their typical consumption rates:
-facing bricks: 0.50-0.75 kg/m²
-conventional render: 0.50-0.80 kg/m²
-tuff stone: 0.50-1.00 kg/m²
-cementitious smoothing layers: 0.20-0.40 kg/m²
-marble: 0.20-0.50 kg/m²

Cleaning:

Clean all the tools with water immediately after use. Hardened materials can be removed mechanically only.

Packing:

ISO STONE is available in 20 and 5 kg drums.

Storage:

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf life:

Shelf life is up to 12 months when stored as per recommendations.

Health and Safety:

As with all construction chemical product, caution should be always exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Prior to each use of any product of ISOBIT, its subsidiaries or affiliates ("ISOBIT"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Datasheet which are available at www.isobitiraq.com or by calling ISOBIT's Technical Service Department at +9647501136936. Nothing contained in any ISOBIT literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each ISOBIT product as set forth in the current product label, Product Data Sheet prior to use of the ISOBIT product. ISOBIT warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL**

T1: +964 750 1136 936.
T2: +964 751 740 1493.
E: info@isobitiraq.com.

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www.isobitiraq.com