

SK 40

Impregnating water-repellent for natural stones



SK 40 has been expressly developed for the impregnation of substrates from weekly alkaline to neutral ones and it is particularly suitable for the treatment of stones like marbles and sandstones and generally natural stones, however it is possible to employ it for the protective treatment of mineral materials which are very alkaline.

GENERAL CHARACTERISTICS

SK 40 is solution that is based on monomolecular alkylalanes in anhydrous alcohol that, thanks to their small dimensions, (in fact, the molecular diameter has the same scale of the molecule of water) can deeply penetrate in materials for building and absorbing minerals. In presence of humidity, they react with the wall of the porosities and pores ones, creating a barrier which is highly water-repellent because of the high superficial tension and the capillary attraction forces which are reversed. They react against the penetration of water. The permeability to vapour is kept unaltered, as **SK 40** has no film action.

PRELIMINARY TESTS

Because of the heterogeneity of the components and the kind of natural stones that are treated with **SK 40**, it is recommended to accomplish, time after time, some preliminary test to determine the right quantity of the product that must be used to obtain the best waterproof protection but also to verify the absence of eventual chromatic variations.

APPLICATION

SK 40 is a water-repellent that denies the water to be absorbed for capillarity by stony materials.

SK 40 showed its efficiency in these following applications:

- protection of natural stone walls from pouring rain and ascending rain;
- prevention from efflorescence, inhibiting the transport of salts on the surface

- prevention from damages that are caused by cycles of bitter cold-thaw and salts

- treatment of surfaces subjected to water pressure like swimming pools, fountains, etc.

It avoids the penetration of water and the one of the saline solutions through pores; protection from the corrosion provoked by acid rains.

HOW TO USE IT

SK 40 is suitable for the waterproof impregnation of materials for building, absorbent minerals that are lightly alkaline or neutral and particularly of the natural stone.

SK 40 is equipped ready for the use.

Plenty apply **SK 40** twice or three times till the saturation. The spurt's pression and the nozzle's diameter must be chosen to avoid the nebulisation of the impregnating agent.

Work with low pressions of impregnation (0,5 -0,7 bar)

The quantity that must be applied depends on the capacity of absorption of the substrate and the depth of penetration desired, about 300-500 gr/m².

Non-absorbent substrates cannot be treated with **SK 40**.

SK 40's contact with water must be avoided before the application.

Containers and equipment must be cleaned and dried.

Stony materials which are wet and treated with **SK 40** could present a darker coloration at the end of the treatment.

Surfaces that are exposed to the external atmosphere and that are polluted by dust, smog, salts, saline solutions, oil etc. must be cleaned. In fact, the complete efficiency of an impregnating water-repellent can be ensured only if the solution can penetrate in stony materials.

Do not smoke during the application. Do not apply it under a bright sunshine, under rain or in case of strong wind.

WARNINGS

Working with **SK 40**, it must be considered the flammability due to the isopropyl alcohol used as solvent: so, flames, sparks and heat sources must be avoided. To extinguish the flames, it can be used water and/or CO₂ fire extinguishers.

Even if **SK 40** is not toxic, it is recommended to the appropriate precautions for the manipulation of chemical products.

Contacts must be minimised. If **SK 40** contacts the eyes, skin and clothes, rinse immediately with water.

PACKAGING

25 Kg drum

STORAGE

Keep the product in a dry environment. Do not expose it to heat sources. Avoid the humidity.

LIMITS OF RESPONSABILITY

We decline any responsibility on the processes and for damages which could result from an inappropriate or wrong use of the or the product. The indications that we give on the characteristics of the product and the instructions for use come from thorough results of tests and practices of laboratories. However, it is not possible to produce any other elements of judgment when the products are used, these indications must not be considered binding and therefore they do not represent a formal guarantee. The production, even partial, of our technical datasheets is forbidden. Datas refer to the standards that are in force to the printing data 2013. The society reserves the right to vary them without any notice.

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