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**Technical Instruction Sheet**

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**Characteristics:** FERROLIT® Stain Stop Lotus is a ready-to-use, weather resistant and non-yellowing impregnation based on high-quality organic active substances. The product is absorbed from the stone due to the capillary forces, however, without closing the pores. The product shows the following properties:

- protection within a short period of time
- strong trickle down effect
- no or very slight colour deepening effect
- very good oil- and grease repellent effect
- very good reduction of water and dirt absorption during periods of moisture
- rapid liberation of humidity during dry periods due to high vapour diffusibility
- oil- and grease repellent effect
- noticeable low adhesion of colours on treated stone surfaces – anti-graffiti effect
- maintenance of breathing properties because there is no surface layer
- tack-free hardening
- resistance to UV radiation
- no release of methanol during hardening

**Field of Application:** FERROLIT® Stain Stop Lotus is used for water-, grease- and oil repellent treatment of mineral building material, e.g. natural and artificial stones (polished ground or rough surfaces of marble, lime stone, granite, gneiss, porphyry, cotto, terrazzo, fine stoneware, concrete unglazed ceramic tiles etc.) The product is especially used in kitchens (coatings, working plates), bathrooms (wash tables, marble tiles), for tables, window sills, tile joints, facades (anti-graffiti).

**Instructions for Use:****1. Cleaning:**

The surface must be clean, totally dry and free from all layers. Stones to be treated outdoors should not contain any nocuous salts (nitrates, sulphates, chlorides) because they reduce the absorptive capacity of the impregnation. In any case, after cleaning rinse well with water. Before the stone is given its protective treatment, it must be totally dry. As a rule, this is the case after 1-2 days at the earliest.

**2. Preparation of a sample area:**

Before starting we recommend to prepare a sample area of 1-2 m<sup>2</sup> in order to examine the efficiency of the impregnation, to evaluate the appearance of the treated object (colour enhancement) and to ascertain the material consumption as exactly as possible.

**3. Impregnating procedure:**

- a) Shake well before use. The best conditions for impregnating is a temperature of 15-25°C and protection from humidity for approx. 2-3 hours. The stone must not be warmed up by an under floor heating or direct sunlight.
- b) The impregnating effect is sufficient for fissures which are smaller than 0.3 mm.

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- c) In general, one to two appliances wet-in-wet are sufficient. In case of less absorbent surfaces we recommend to dilute with nitro-dilution in the ratio of 1:1.
- d) Apply the product with a brush or a mop. Airless spraying equipment with low pressure (max. 1 bar over pressure) is suitable for treating cades using the flooding (multiple-coat) method and a jet distance of 5-10 cm (condition: tubes and seals must be resistant to solvents). The impregnation is applied until it runs down 40-50 cm.
- e) Approx. 20 minutes after application, respectively before drying of the impregnation on the surface, any excess which has not been absorbed by the stone has to be completely removed with a suitable cloth. Polished surfaces must additionally be polished again until any blooming on the surface is removed.
- f) If the desired effect is not achieved or if the impregnation has been applied unevenly, it is possible to apply the impregnation once again. The water repellent effect develops after a few minutes, full protection after 2-3 hours.
- g) Sufficient ventilation (approx. 2-3 days) is necessary when using the product in food areas.
- h) Tools can be cleaned with nitro dilution.

**Special Hints:**

- Ensure sealing of the reverse side and lateral surfaces of the stone, so that rising moisture cannot penetrate into the stone.
- Special protective measure in case of spray application: avoid formation of aerosols and risk to third parties. Do not breathe vapours (protective mask).
- If stored at temperatures below 15 C° the product tends to thicken. By warming to approx. 20°C it becomes fully liquid and homogenous.
- If the treated area is cleaned, a drying time of 1 – 2 days (depending on the temperature) is necessary.
- An impregnation with FERROLIT Stain Stop Lotus prevents the stone from staining respectively the development of these spots will be delayed considerably. Should they nevertheless appear, the surface can be cleaned much more easily.
- Unsuitable or aggressive cleaning agents as well as pressure washers may destroy the impregnation and the stone. Even on stone surfaces impregnated with Stain Stop Lotus, it is possible that spots are forming after a long time exposure to aggressive products (e.g. juice, vinegar, alcohol or cosmetics). Yet, this formation is by far lower as on surfaces not being treated with Stain Stop Lotus. Spots can be avoided by immediately removing these aggressive products.
- Existing joints must be tested in view of their resistance to solvents. In case wetting agents had been used to smoothen joint fillers, they must be removed prior to application of the impregnation.
- Stain Stop Lotus is not suited for glazed and non-absorbent surfaces or plaster.
- A surplus of the product causes blooming and spotting.
- Surfaces to be treated must be protected against direct solar radiation.
- Protect synthetic materials which are not resistant to solvents, e.g. window screens, parts to be varnished or objects situated in the area of working (cars, gardens).

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- On some natural stones like e.g. Nero Assoluto or Nero Impala the stone-imminent structures may be stronger intensified than the residual stone surface if treated with FERROLIT Stain Stop Lotus. This might be seen as staining, however, the colour intensification is not a product defect but is attributed to the characteristics of the stone.
- When applying the product correctly it is not hazardous for the health.
- For adequate waste disposal container must be completely emptied.

**Safety Measures:** see EC Safety Data Sheet

**Technical Data:**

Coverage:	approx. 5 - 20 m <sup>2</sup> /litres, depending on the absorptive capacity of the stone
Colour:	transparent yellowish
Density:	approx. 0.78 g/cm <sup>3</sup>
Shelf life:	1 year approx. if stored in cool place free from frost in its tightly closed original container.

**Notice:** The above information is based on the latest stage of our development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trails of the product, in an inconspicuous area or fabrication of a sample piece.

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