



VURA®
Time To Build Better

VURA RobustnerTM

VURA Robustner is a one component liquid product derived from ethyl esters of silicic acids. The product is converted into the natural binding agent silica gel and ethanol by the catalytic reaction with air humidity. Approx. 450-550 g of silicic acid gel is produced out of 1 Kg **VURA Robustner**.

CHARACTERISTICS

- Ready-to-use one component product
- Easy application
- Weather-resistant and non-yellowing
- Fluid consistency-good penetration
- Very high contents of active substances
- No closing of the pores, the stone retains its ability to breathe
- Transparent-colorless, therefore suited for light colored natural stones
- Solventless

APPLICATION AREAS

VURA Robustner is used to solidify absorbent mineral natural stones (sandstone, tuff stone, limestone etc.) or cast stones (stucco or fresco). The color of the stone is not intensified and the natural breathing properties of the stone are preserved

INSTRUCTIONS FOR USE

PREPARING MEASURES:

In order to achieve a successful solidification, it is important to first determine the condition of the object which will be solidified:

TEST FOR NOXIOUS SALTS (NITRATES, SULPHATES, CHLORIDES):

In case a large amount of these soluble salts is contained, the salt content must be reduced by several careful cleaning procedures with water (with compression). If the stone is very brittle, it may be sensible to harden the stone (if the salt content is adequately low) before cleaning it because intensive cleaning can result in a clear loss of substance. Pressure washers are not suitable for such cleaning work under any circumstances.

DETERMINATION OF DAMAGED STONE LAYER:

An optimum solidification can only be guaranteed if more than the complete friable stone stratum is hardened. If not, shells may form and parts may chip off. Damaged stone has a higher porosity and therefore a higher water absorption. Extract a core from the stone to be treated and cut the core into slices. To examine the water absorption put the stone slices on well-watered foamed plastics. To compensate for the water extracted from the foamed plastics due to the capillary water absorption, they are put in a container filled with water. In intervals of an hour and during a whole period of 8 to 24 hours the specimen is weighed. Thus, the water absorption, porosity and degree of damage can be determined.

CLEANING:

Rinse thoroughly with water after cleaning. The cleaning method used must suit the object concerned

PREPARATION OF A SAMPLE AREA:

In case larger areas (façades) are to be solidified, we recommend preparing a sample area of 1-2 m² to examine

- to determine the material consumption as exactly as possible
- the efficiency of the product
- and to determine whether the object was hardened up to the healthy core of the stone efficiency and solidification depth can be examined according to the water absorbent method

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HARDENING PROCEDURE:

- The best conditions for a completely dry stone, a temperature of 10–25°C, a relative air humidity of more than 50% as well as protection from rain and sunlight for approx. 1 week.
- Apply **VURA Robustner** several times wet-in-wet in spray, stroke or dipping method, until the stone is struttred; if necessary repeat the treatment after 2–3 weeks. Airless spraying equipment with low pressure (max. 1 bar over pressure) is suitable for treating façades using the flooding (multiple-coat) method and a jet distance of 5–10 cm (condition: tubes and seals must be resistant to solvents). **VURA Robustner** is applied several times at intervals of 1–2 hours until it runs down 40–50 cm.
- It is important to coat the object evenly until complete saturation is reached.
- Reaction time at 20°C and a relative air humidity of 50% is 2–3 weeks approx.
- A second solidification can be made afterwards or stone substitution material can be applied. If the product is applied after coating with stone substitution material, a reaction time of approx. 4 weeks must be taken into consideration.
- We recommend to hydrophobe the object with Vura Prevento afterwards.
- Tools can be cleaned with benzene or white spirit thinner available in the market.

SPECIAL NOTE

- Use proper gloves to protect your hands.
- Surfaces to be treated should be protected from sunlight and rain
- Surplus material can cause blooming and spots
- Protect synthetic materials which are not resistant to solvents, window- screens, parts to be varnished or objects situated in the area of working (cars, gardens).
- Dipping containers should be closed hermetically.
- Being worked properly, the hardened product is generally recognized as not injurious to health.
- For adequate waste disposal container must be completely emptied

TECHNICAL DATA

Coverage	:	approx. 0.1–2.5 m ² /litre
Color	:	Colorless
Pack Size	:	1 L
Density	:	Approx. 1.0 g/cm ³
Content of Active Substance	:	100%

STORAGE

12 months approx. if stored in cool place free from frost and in its tightly closed original container.

HEALTH & SAFETY:

Read Material Safety Data Sheet before handling or using this product.

IMPORTANT NOTICE:

The above information is based on the latest stage of 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 trials of the product, in an inconspicuous area or fabrication of a sample piece.

This Datasheet is an information document drawn up in good faith. The information herein is based on tests carried out in our labs and is correct on the basis of our experience, but must be considered only as indicative because of the nature of the product whose behaviour varies with the minimal change in the surrounding conditions (environmental parameters, materials it comes into contact with, storage and ageing methods, etc.) For this reason, the information herein, even if based on our best knowledge, is no guarantee for the user since the customer's application, use and processing of our products and of the final product are beyond our control and are therefore wholly the customer's responsibility. We trust the tests we carried out can be a useful indication, even if we cannot accept any responsibility with regard to the result of your processing. It is the user's responsibility and duty to perform preliminary tests on the specific application, to assess suitability to the required use as it is his/her duty to check that the use of our products complies with the current laws, regulations, provisions and patents. This information must not be considered as an authorization and is no encouragement to infringe any patent. The data can be changed without notice and must not be considered as legally meaningful.

This technical data sheet supersedes all previous editions relevant to this product. Please be aware that this Technical Data Sheet only relates to a product manufactured in the specific relevant production site.

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