

INSTRUCTIONS FOR USE (IFU)

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PRODUCT DESCRIPTION

Clear ready-to-use liquid for structural solidification, based on silicates.

Packaging

10 litre containers

Storage

When stored in a frost-free place in unopened, undamaged original packaging, shelf life is 24 months.

AREAS OF APPLICATION

- substrates: concrete, cementitious surfaces, cementitious Vandex waterproofing and protection products
- surface hardening/solidification
- drinking water structures

SURFACE PREPARATION

The substrate to be treated must be sound, even and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease or remains of paint must be removed by suitable means. Water leaks must be stopped e.g. with VANDEX PLUG. The substrate must be dry at the time of application.

Adjacent surfaces (glass, aluminium, woodwork, etc.) shall be covered – especially during application.

All surface treated with cementitious waterproofing and protection products which are to be treated with CEMLINE STON must be at least 14 days old.

MIXING

CEMLINE STON is a ready-to-use liquid and must not be diluted with water or any solvent.

APPLICATION

CEMLINE STON can be applied by brush or low pressure spray equipment. The substrate should be saturated with CEMLINE STON. On medium absorbent substrates one coat should be sufficient. On very absorbent substrates a second coat may be necessary.

Do not apply at ambient temperatures below +5 °C, or to a frozen substrate.

CONSUMPTION

Depending on the porosity of the surface, consumption is normally between 150–250 ml/m². Precise quantities must be determined by a trial application.

CURING

Surfaces exposed to weathering should be protected from rain for a minimum period of 3 days and from frost for a minimum period of 5 days.

FILLING OF WATER RETAINING STRUCTURES

Filling can take place when the surface treatment has cured sufficiently, usually not less than

14 days after application at a curing temperature $\geq 7\text{ }^{\circ}\text{C}$

7 days after application at a curing temperature $\geq 20\text{ }^{\circ}\text{C}$

The required cure time may be calculated from the minimum daily temperature recorded by the water company's representative, or if no records are kept, 14 days minimum.

CLEANING AND DISINFECTION

A careful cleaning and disinfection prior to the first operation is essential. Observe national laws and regulations (e.g. Principles of Water Supply Hygiene & Technical Guidance Note No. 8 "Water treatment [disinfection]").

Cleaning and disinfection of the tanks prior to the first filling

A careful cleaning and disinfection prior to the first operation is essential:

- rinsing of all inner surfaces (ceiling, walls, floor, columns, stairs) with drinking water (pressure $\leq 30\text{ bar}$)
- disposing of the rinsing water

The use of detergents prior to the first operation is generally not necessary.

For disinfection all inner surfaces have to be treated with approved disinfectants (e.g. aqueous solutions of sodium hypochlorite, calcium hypochlorite etc.) and afterwards rinsed with clear water.

The disinfectant contaminated water has to be disposed of according to legal requirements (also refer to Principles of Water Supply Hygiene & Technical Guidance Note No. 14 "Disposal of chlorinated water").

At the time of filling the tank samples for bacteriological analysis shall be taken. When the samples are approved to comply with legal requirements the tank can be put into operation.

Periodical cleaning and disinfection

The drinking water tanks shall be cleaned periodically (min. once a year) and disinfected if necessary.

For the cleaning water jetting and the use of appropriate mechanical equipment is suitable. Chemical detergents shall only be used exceptionally, increasing the water pressure and careful scrubbing brings in most cases the same effect.

The water tank shall be cleaned immediately after emptying as the residues can be removed more easily when still humid.

Suitable means for the cleaning:

- combined brushing (scrubbing) and rinsing with water (≤ 30 bar)
- water jetting (≤ 30 bar)

The use of chemical detergents shall be reduced to a minimum and prior to application be discussed with the local Vandex distributor.

Chemical additives to the cleaning water reduce the cleaning time and shall be applied only to remove very resistant residues. Acid containing detergents attack cement based Vandex coatings. In order to prevent damages Vandex coatings shall be exposed to aggressive detergents only for a short period.

Furthermore, the following recommendations shall be considered:

- Chemical detergents must be assessed for their toxicology and drinking water suitability prior to their application. It is highly recommended to apply only detergents which are approved for contact with drinking water. This includes also assessments regarding potential consequences on the microbiology of the water, the compatibility with the coating material, the disposal and work and safety related issues.
- It has to be checked if and under which conditions the detergent containing water can be disposed of safely into the municipal wastewater system.
- Adverse effects of the cleaning on the inner surfaces or mounting parts, e.g. roughening or corrosion, shall be kept as little as possible.

HEALTH AND SAFETY

For safe handling procedures and precautions, instructions on safe disposal of spillage and excess product, avoidance of harm to the environment etc. please refer to Safety Data Sheet of CEMLINE STON.

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



An **RPM** Company

HEAD OFFICE AND INTERNATIONAL SALES:

Vandex International Ltd
P.O. Box · CH-4501 Solothurn/Switzerland
+41 32 626 36 36 · info@vandex.com · www.vandex.com

PRODUCTION:

Vandex Isoliermittel-Gesellschaft m.b.H.
P.O. Box · D-21487 Schwarzenbek/Germany

