

Restrictions on Use

NORTEC® DENSE N is not to be used when the air or concrete surface temperature is less than 5 °C or more than 40 °C during or immediately after treatment. In addition, the surface must be safeguarded against rapid drying from sun exposure, wind, or low air humidity. Furthermore, the application should not be carried out before, during, or immediately after rain.

Tools

Water hose with nozzle (mist pressure), broom with soft bristles, floor squeegee, and, depending on needs and area of use, single-disc machine (old surfaces) and auto scrubber.

Surface Preparation

- Cover, or otherwise protect bordering areas, walls, and windows against contamination. Note: Never allow the material to come into contact with glass or aluminium. If it happens, immediately rinse thoroughly with water.
- *NORTEC® DENSE N* permanently solidifies all cementitious surface contamination. Therefore, thoroughly sweep and wet clean surfaces so that they are residue free.
- Damages, breakouts or visual imperfections should be repaired with a mineral mortar system prior to the application of the densifier.
- If *NORTEC® DENSE N* is used on an old concrete surface, this surface must be mechanically or thoroughly wet cleaned and moistened beforehand.
- *NORTEC® DENSE N* can be used on damp surfaces. Puddles should be avoided so that the material is not diluted before the reaction process.

Material Application

The product is ready to use and does not require dilution.

When applying *NORTEC® DENSE N* onto a new concrete surface, note that:

NORTEC® DENSE N should be applied after the recommended curing time for concrete via flooding (no vapour or mist!) and spread evenly with a soft and clean broom.

The average quantity used is 0.15 - 0.25 l/m² and depends on the respective ambient temperature and the absorbency of the substrate. Experience has shown that in the case of screed surfaces, higher quantities are required.

The surface with *NORTEC® DENSE N* must be kept moist for at least 40 minutes. Apply more material as needed.

As soon as the surface begins to dry and becomes slippery or gel-like, lightly spray the surface with water and continue to work the material into the surface using the broom.

The time at which the gel begins to develop depends on the temperature. High temperatures accelerate gel formation, low temperatures slow it.

After the gel forms again for a second time, rinse the surface thoroughly with water, completely remove the gel and reaction product from the surface and allow the surface to dry.

Excessive, dried material may lead to white staining that can only be removed mechanically.

If it is an exterior surface, rain will benefit the reaction process after the application process has been completed.

Device Cleaning / Disposal

Unused product can be stored in the original container. Store product in a cool, dry, well-ventilated area.

We recommend cleaning all the work tools with warm soapy water after use.

Follow applicable legal regulations in order to safely and properly dispose of excess material.

Operating Principle

The formation of gel indicates that the hardening reaction has started. Allowing *NORTEC® DENSE N* to sit longer on the concrete surface without drying is more beneficial than removing *NORTEC® DENSE N* from the concrete surface too soon.

If the surface dries too quickly, the gel formation reaction process can be delayed by lightly spraying the solidifying gel with water. However, never dilute the material before use or reuse the reaction residue collected.

The effect of a surface finished with *NORTEC® DENSE N* will not be visible in the first few days. Therefore, test surfaces treated with *NORTEC® DENSE N* are unsuitable for quick visual comparisons with film-forming products due to the longer maturation time.

Drying Time

As soon as the surface has dried completely, it may be used for foot traffic and driven on with vehicles.

The drying time depends on the environment and weather conditions. At a room temperature of 20 °C, a surface can normally be used for foot traffic after 1 to 3 hours.

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Cleaning and Maintenance

In general, cleaning agents that are neutral and designed for concrete are suitable for maintenance cleaning.

The use of acidic cleaners, e.g. suitable for sanitary use or vinegar and sulphate-based cleaning agents, is not recommended as they will corrode the concrete over time and make the surface appear dull.

Black industry pads and a slightly alkaline base cleaner are beneficial for the cleaning of heavy contamination.

No wax or paraffins should be used for maintenance.

For more detailed information, please refer to the data sheet "*Cleaning Instructions*".

Work Safety

The product is alkaline like cement paste.

The same safety instructions as for handling freshly cement-based building materials apply.

The product is colorless, not flammable, and also not toxic. In the event of fire, no toxic gas or vapors will be created.

It is a slight skin irritant. If it comes into contact with eyes, rinse thoroughly with water.

Please read the safety data sheet before using the product.

Technical Servicing

For additional technical information and support, please contact NORSAs Customer Service.

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