



Technical Data Sheet

NM Grundering BP50 Super

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General Description

NM Grundering BP50 Super is a water emulsified epoxy primer for concrete and mineral surfaces.

The product has been marketed since 1971 and the long-term properties of **NM Grundering BP 50 Super** is well documented.

Uses

NM Grundering BP 50 Super is not a diffusion barrier, and can be used on wet surfaces and where moisture can occur.

NM Grundering BP 50 Super has an extremely high adhesion to ceramics and concrete, even under wet conditions.

NM Grundering BP 50 Super can also be used to reinforce concrete or as surface binder.

NM Grundering BP 50 Super functions effectively as emission and alkali barrier. **NM Grundering BP Super 50** has also demonstrated efficacy as radon barrier.

NM Grundering BP 50 Super has a strong yellow tone, and therefore should not be used as a clear coat.

Surface Preparation

Concrete surfaces must be at least 14 days old. Remove oil, grease and wax contaminants by scrubbing with industrial grade detergent or degreasing agents followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membrane and other contaminants must be removed from the surface by shot-blasting, scarifying or grit-blasting followed by vacuum cleaning.

After pre-treatments, the surface tensile strength must be at least 1.5 MPa (check with an approved pull-off tester).

NM Grundering BP 50 Super can be diluted with up to 20 % extra water. This water should be added after proper mixture of **NM Grundering BP 50 Super** and **NM Härdare 50**.

Application

NM Grundering BP 50 Super should not be applied at surface temperatures below +10°C / +50°F.

NM Grundering BP 50 Super are to be applied by brush, roller or squeegee.

The relative humidity should be lower than 80% during the curing process. Therefore, a very good ventilation is required. Ensure that ventilation takes place at floor level. This is especially important to consider in cold conditions.

NM Grundering BP 50 Super is also used with our efficient **FAE-barrier**. See **Working instruction NM Fuktspärr FS 023** for more information.

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Typical Properties

Resin NM Grundering BP 50 Super
Hardener NM Härdare 50

Mixing ratio

Resin – Hardener 100 - 200 by weight

Density: 1050 kg/m³

Viscosity: 0.8 Pa·s

Potlife 100g 20°C: 45 minutes

Adhesion to concrete: 17 MPa

Dry content: 50%

Water vapour diffusion

By 75µ layer: 10.2 · 10⁴ s/m

T_G: 57°C / 134.6°F

Application and curing

temperature: Min. +10°C

Max. +35°C

Colour: Transparent

Consumption: 0.150 kg/m² / layer

Normal packing: 2.5 + 5 = 7.5 kg

Cleaning solvent: Water

Store free from frost.

Note

Quality assurance:

In order to assure the quality of application, we have a form where important information is documented. The form is available from Nils Malmgren AB, telephone +46 303 936 10

Declaration of performance:

Can be obtained for this product. See our website or contact Nils Malmgren AB.

Disclaimer

This product's technical specifications are developed by experience in field and laboratory by us.

Fully cured will take place at seven days at +23°C and 50 % RF.

We reserve the right to change products as well as data. Current data sheets are available at our website and with us. We cannot assume responsibility for use in areas that we do not know. The user shall always evaluate products for their intended use and we guarantee only the material properties. For every product we offer reference objects separately.