

Product data sheet

Product **Robust™ Sement**

Description Robust™ Sement is mixed with water, sand and gravel to a mortar that can be used in most mortar applications in construction of foundations, pillar foundations, floors etc. We recommend using the ready made mortar Robust™ Støpemørtel B25 for best results.

Preperation The substrate must be free from loose particles, residual cement, grease, oil, dust, mud, snow, frost and ice. Absorbent substrates must be pre-watered. Free water should not be on the surface of the substrate when the application starts. If necessary, the substrate can be cleaned mechanically or sandblasted before application.

Mixing Mortar is made by mixing water, cement, sand and gravel. The sand must be of a good quality without any salt or debris. The gravel cannot be larger than 16 mm diameter. **NB!** Use fresh clean water. Do not use salt- or bog water.

Mixture with 20 kg bag cement

Cement	Sand	Gravel	Water
20 kg	87 kg	50 kg	15 liter

Mixture for 1 m³ mortar (without gravel).

Cement	Sand	Gravel	Water
380 kg	1700 kg	0 kg	152 liter

Mixture for 1.5 m³ mortar (with gravel).

Cement	Sand	Gravel	Water
380 kg	1700 kg	1120 kg	152 liter

Application Apply the mortar with suitable masonry tool. It is important that the mortar is sufficiently compressed towards the substrate, with no air pockets. Immediately after application the surface should be protected from drying out too quickly by covering it with plastic film or by watering when the mortar has set. The mixture must be used within 2-3 hours. Do not use, or add water to, mortar that has begun to harden. Clean equipment and tools with water.

Consumption 20 kg bag will provide approx. 157 kg mortar.
Ready mixed mortar: approx. 75 litres.

Finishing After 24 hours the mortar reaches a compressive strength of approx. 10 MPa. Newly applied mortar should not be exposed to temperatures below +5°C, and not below +2°C before it has reached a compressive strength of min. 5 MPa. Avoid applying
+20°C and 50% RH

mortar on a hot substrate or in direct sunlight. The weather should be dry. It is recommended to water the mortar after 24 to 48 hours. If the temperature is high, the mortar should be kept moist the first few days.

Storage	To be stored dry, in unopened original packaging. Best result is achieved when used within 1 year after manufacturing date.
Technical data	Water required: Se table. Pot life of mixture: approx. 2-3 hours. Maximum added gravel size: 16 mm. Compressive strength: After 24 hours: 10 MPa. After 7 days: 22 MPa. After 28 days: 30 MPa.
Safety	The product contains cement, which is classified as irritating, and hydrated lime, which may be corrosive. Avoid contact with skin and eyes. Use appropriate protective clothing, gloves and safety goggles. For health, safety and environment information please read the safety data sheet at www.robustnorge.no .
Packaging	20 kg bag.
GTIN	7090040901378
Item no	137
Nobb	
Warning	All details in this technical information are based on our current knowledge and experience. They are non-binding and do not release the buyer from the duty to undertake their own tests for suitability for the intended application and purpose. A guarantee for the general validity of all details is ruled out with regard to the different processing and construction site conditions. The general rules for construction engineering as well as the valid standards and guidelines must be observed. The publication of this technical information replaces all previous editions. Changes in the scope of product and application engineering further development are reserved. Please obtain the latest information from our internet sites, www.robustnorge.no .
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