

Bruil Underpinning Mortar OSM502



Bruil underpinning mortar OSM502 is a dry, ready-mixed, cement-bonded mortar compliant with CUR recommendation 24 ('Low-Shrinkage, Cement-Bonded Mortars').

Usage

Bruil underpinning mortar OSM502 is a K50-grade mortar suitable for all environmental categories, e.g. (X0, XC4, XF4, XS3, XD3 and XA3.).
Suitable for underpinning horizontal concrete element anchors.

Benefits

Also available as part of the Bruil Silo service:

- > consistent, high-grade mortar
- > higher mixing speed (available on request)
- > zero on-site waste
- > fast, dust-free mixing
- > reduced workload



approx. 25 kg



approx. 1,000 kg



approx. 2,000 kg
approx. 7,000 kg
approx. 22,000 kg

Product Properties

Binder	Cement	(NEN-EN 197-1)
Aggregate	Sand 0–2 mm	(NEN-EN 13139)
Additives	Admixtures	(NEN-EN 934-3)
Water Content	10.5 ± 0.5%	
Slump Flow	100–130 mm	
Density	2,300 ± 50 kg/m ³	
Setting Time	30 min.	
Intumescence		
Plastic Phase	0.1–2.0% v/v	
After 24 hours:	70–100% w.r.t. max. intumescence	
After 24 hours:	> intumescence at 30 min.	
Stability	Stable, zero water separation, zero foaming	
Compression Strength	→ 50 N/mm ²	
Contraction	< 0.5 mm/m	

Instructions

Preparation

Eliminate anything detrimental to bonding. Pre-moisten substrate with water to prevent mortar from drying out. Remove any excess water before applying mortar.

Processing

Measure 2.8 to 3.0 L of clean mains water per 25 kg bag into a clean vat or batch mixer. Add mortar. Mix mechanically for approx. 3 minutes using suitable mortar mixer until a homogeneous, lump-free, no-slump mixture. Use underpinning mortar within 30 minutes of mixing at an ambient temperature of between 5 and 30 °C. Do not use on frozen substrates. Make sure applied mortar is well packed and compacted (tamp down well). Do not mix old and new mortar. Clean tools and equipment with water immediately after use.

Curing

Protect applied mortar from adverse weather conditions (rain, wind, frost and sun) and above all, prevent dehydration. For example, cover finished surface with sheeting and moisten regularly with mains water or apply a curing compound.

Quantities

Quantities required are heavily dependent on how the product is being used.

- > One 25 kg bag of Bruil underpinning mortar OSM502 produces approx. 12 L of mortar.

Ecology/Toxicology

Product presents no hazards to environment or health under normal use. Empty packaging fully, allow remnants to dry and/or cure, and dispose of as regular construction waste.

Safety Instructions

Separate safety data sheets (SDS) are available for all Bruil beton & mix products. Always read SDS before use. Do not use with other substances unless explicitly instructed to do so in this documentation.

Supply

Bruil underpinning mortar OSM502 is available in the following bulk quantities:

Packaging	Weight	Equipment
Bagged	25 kg	N/A
Bigbag	1,000 kg	N/A
Piccolo	2,000 kg	D40
Small Mortar System (KMS)	7,000 kg	D40
Silo	22,000 kg	D40

Storage & Shelf Life

Store Bruil underpinning mortar OSM502 in dry, frost-free conditions. Shelf life of at least 6 months after production date if unopened (see side of packaging or delivery note).

Additional Information

We have based this information on our current knowledge and experience. It applies to the product as supplied. Bruil beton & mix provides this information without any guarantees and accepts no liability whatsoever for any damage caused as a result of using this information. This product is specifically intended for professional use.

Seals of Approval

Bruil underpinning mortar OSM502 is KOMO certified in accordance with assessment guideline BRL 1904 and the Besluit Bodemkwaliteit (Bbk) [Dutch Soil Quality Decree].



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Material

Answers & Advice

Please contact one of our technical consultants for professional advice or answers to any of your questions. Please visit our website at www.bruil.nl for additional information about this product, declarations of performance and information about other Bruil products.