

KRYSTALINE M60

HIGH-STRENGTH THIXOTROPIC WATERPROOF GROUT

DESCRIPTION

Krystaline M60 is a high-strength, waterproof, thixotropic grout enhanced with C-S-H technology, designed for applications requiring compressive strengths exceeding 60 MPa and offering self-healing capabilities.

Krystaline M60 is recommended as a high-strength, low-shrinkage alternative for **Krystaline Dry**, **Krystaline Block**, or **Krystaline Block F**. It is specially formulated with Krystaline's proven technology combining self-healing capabilities with a highly compacted superior strength grout.



FEATURES & KEY BENEFITS

- High early strength
- Superior bonding ability
- Will self-heal if cracks develop
- Very high compressive and flexural strength
- Withstands hydrostatic pressure
- Contains no corrosive chemicals or metals
- Safe for contact with potable water
- Can be painted after curing
- Fast and easy to use
- Permanently waterproof
- Increased durability decreases maintenance and repair costs
- Exceptional performance that reinforces your commitment to high-quality construction

TYPICAL APPLICATIONS

- Repair of cracks, joints, and holes
- Waterproof tie holes in concrete walls
- Repair spalled or honeycombed concrete
- Can be used over stone and non-concrete substrates
- Can be applied as a surface grout over large areas without cracking

PACKAGING

Krystaline M60 is supplied in 25 kg pails.

APPLICATION GUIDELINES

Krystaline M60 is mixed (5.5 parts powder to 1 part clean water by volume) and applied to the prepared substrate using a trowel.

For deep patches or overlay applications, **Krystaline M60** can be applied at between 7 to 60 mm thickness in one layer. In overhead applications, 7 to 40 mm thickness. Ensure the surface is roughened if additional layers or materials will be applied over Krystaline M60 for optimal adhesion.

Treated areas should be protected from mechanical impacts and below 5° temperatures for 3 days. During this time, it is necessary to ensure that the surface treated with **Krystaline 1 system materials** remains moist for 3 days.

Water spraying is typically used to moisturize treated surfaces.

It is recommended to apply paint and finishing materials to surfaces treated with **Krystaline 1 system materials** no earlier than 28 days after treatment. This waiting period may be shortened or extended depending on the specific requirements of the finishing material regarding the maximum allowable concrete moisture content.

Attention! Before applying decorative coatings to surfaces treated with **Krystaline 1 system materials**, it is necessary to clean them mechanically to improve adhesion. This can be done using a high-pressure water jet (for materials applied to wet concrete) or a wire brush (for materials applied to dry concrete surfaces).

DOSAGE

- 1.3 kg per linear meter to fill a 25 mm x 35 mm chase.
- As coating - 1.9 kg/m² per mm

The coverages are theoretical and depend on local conditions. On-site testing should be done before the application.

TECHNICAL DATA

Color	Grey
Appearance	Powder
Powder density	1.4 g/cm ³
Wet density	2.2 g/cm ³
Compressive strength	1 day – 18.9 MPa
	7 days – 57.9 MPa
	28 days – 81.1 MPa
Flexural strength	1 day – 4.3 MPa
	7 days – 9.7 MPa
	28 days – 10.3 MPa
Initial set time at 25°C	40 minutes
Final set time at 25°C	90 minutes
Mix ratio by volume	5.5 parts powder to 1 part water
Solids content	100%

STORAGE

Krystaline M60 should be stored at room temperature at min 5°C to max 35°C, kept dry, and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 2 years can be expected.

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HEALTH & SAFETY

This product becomes caustic when mixed with water or perspiration.

Hazard statements


H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. If wearing contact lenses, remove them if easily possible, and continue rinsing.

For more information, please check the safety data sheet for this product.

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Krystaline Technology, S.A. C/ Nicolás de Bussi nº 52 03203 Elche (Alicante)	
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KRYSTALINE M60 EN 1504-3 Product for the protection and repair of concrete structures Principle 3 Concrete Restoration Method 3.1 Applying mortar by hand	
Essential characteristics	Performance
Compressive strength	≥ 45 MPa
Chloride content	Class R2 ≤ 0.05 %
Adhesive bond	≥ 2 MPa
Restrained shrinkage/expansion (dimensional stability) ^a Not required if thermal cycling is carried out	NPD ^b
Carbonation resistance (For durability of corrosion, protection, or inhibition) ^a	$d_k < \text{control concrete type MC (0,45)}$
Elastic modulus ^a	NPD ^b
Thermal compatibility. Freeze/thaw cycles	Class R2 ≥ 0.8 MPa
Skid resistance ^a	NPD ^b
Coefficient of thermal expansion (only for polymer concretes) ^a	NPD ^b
Capillary Absorption	Class R2 ≤ 0.5 kg/(m ² · h ^{0.5})
Reaction to fire	Class A1
Dangerous substances	NPD ^b

^a where relevant

^b NPD: No Performance Determined

DISCLAIMER

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product, as no warranty is given or implied in connection with any recommendations or

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suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous. Document version: January 2025