

GROUT HARDENER

GROUT
ADMIXTURE

Conforms to
EN 13888 – CG2W

POLYMER ADDITIVE FOR
CEMENTITIOUS TILE GROUT



ADMIX FOR VELWIIN CEMENTITIOUS TILE GROUT FOR IMPROVED PERFORMANCE



Easy to Clean



Non-Cracking



Non Shrinking



Internal & External
Floor & Wall



Increased
Water
Resistance



Increased
Strength

KEY BENEFITS

- Improves grout strength
- Enhances water resistance
- Reduces shrinkage and cracking
- Improves flexibility
- Better stain resistance
- Suitable for internal & external applications
- Easy to mix and apply
- Ideal for floor & wall grouting

DESCRIPTION

Velwiin Grout Hardener is a premium quality polymer-based liquid additive specially developed to be mixed with cementitious tile grout for improving its overall performance, durability and finish.

When used with Velwiin Tile Grout, it significantly enhances the grout's bond strength, flexibility, water resistance, stain resistance and abrasion resistance while minimizing shrinkage and surface cracking. It also improves the grout's workability, making application easier and ensuring dense, smooth and long-lasting grout joints.

Velwiin Grout Hardener is suitable for both floor and wall tile joints and is recommended for ceramic, vitrified, porcelain, marble, granite, natural stone and other compatible tile installations in residential, commercial and industrial projects.

FEATURES AND ADVANTAGES

- Ready-to-use polymer additive that simply replaces water while mixing cementitious tile grout.
- Improves flexibility and overall bonding performance.
- Enhances water, stain and abrasion resistance.
- Minimizes shrinkage and helps prevent cracks in grout joints.
- Increases compressive and flexural strength for longer service life.
- Produces a smooth, dense and durable grout finish.
- Suitable for narrow as well as wider tile joints.
- Compatible with ceramic, vitrified, porcelain, marble, granite and natural stone tiles.
- Ideal for interior and exterior floor and wall applications.
- Improves the overall durability and appearance of cementitious tile grout.

AREA OF USE

Velwiin Grout Hardener is recommended for use with Cementitious Tile Grout

in the following applications:

- Ceramic tiles
- Glazed ceramic tiles
- Vitrified tiles
- Full body vitrified tiles
- Porcelain tiles
- Marble
- Granite
- Natural stone
- Glass mosaic tiles
- Large format tiles and slabs

Suitable for:

- Interior floor joints
- Interior wall joints
- Exterior floor joints
- Exterior wall joints
- Residential projects
- Commercial buildings
- Areas requiring improved grout strength and water resistance
- Tile joints up to 6 mm (or as recommended for the grout grade being used).

STANDARD COMPLIANCE / SPECIFICATION

When used with Velwiin Cementitious Tile Grout as recommended, Velwiin Grout Hardener enhances the performance of the grout to comply with the requirements of EN 13888–CG2W for improved cementitious tile grouts. It provides enhanced durability, reduced water absorption and improved mechanical properties for long-lasting grout joints.

LIMITATIONS

Do not use Velwiin Grout Hardener in the following situations:

- Areas continuously exposed to aggressive chemicals, acids or industrial solvents.
- Swimming pools, chemical tanks or locations subjected to permanent water immersion unless an epoxy grout system is specified.
- As a substitute for waterproofing membranes or waterproof coatings.
- Do not dilute with additional water or mix with any other chemical additive unless recommended by Velwiin Chemicals.
- Do not apply in wet, water-filled or contaminated grout joints.
- Avoid cleaning fresh grout joints with acidic cleaners.
- Do not use after the product has exceeded its shelf life or if the container has been damaged or contaminated.

For applications outside the recommended scope, please consult Velwiin Technical Services before use.

TECHNICAL INFORMATION

APPLICATION PROPERTIES

(Velwiin Grout Hardener + Velwiin Cementitious Tile Grout)

Testing Properties	Typical Results
Appearance / Colour	White Liquid
Recommended Mixing Ratio	200 ml Velwiin Grout Hardener for 1 kg Velwiin Tile Grout
Mixed Density	Approx. 1.70 – 1.80 kg/Litre
Pot Life @ 30°C	Approx. 60 Minutes
Recommended Joint Width	1 – 6 mm
Sag Resistance	Non-Sag
VOC Content	Low VOC
Application Temperature	+10°C to +35°C
Light Foot Traffic	After 24 Hours
Regular Traffic	After 72 Hours
Final Cure	28 Days

PERFORMANCE PROPERTIES

Testing Properties	Typical Results
Compressive Strength (28 Days)	15 – 20 N/mm ²
Flexural Strength (28 Days)	5 – 7 N/mm ²
Linear Shrinkage	< 0.5 mm/m
Water Absorption (30 Minutes)	< 1 g
Water Absorption (240 Minutes)	< 1 g

The above values are typical laboratory results obtained under standard test conditions. Actual performance may vary depending on substrate condition, application method, temperature and humidity.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- Allow the tile adhesive to cure completely before grouting. Grouting should normally be carried out after 24 hours of tile installation.
- Ensure that all grout joints are clean, dry and free from dust, adhesive residue, oil or any loose particles.
- Remove excess adhesive from the joints so that the grout can penetrate to at least 2/3 of the tile thickness.
- The tile joints must be dry before application. Avoid grouting on damp or water-filled joints.
- For porous or polished tiles, masking tape or a suitable tile protection system may be used to avoid surface staining.

MIXING

Shake the Velwiin Grout Hardener bottle thoroughly before use. Pour the required quantity of Velwiin Grout Hardener into a clean mixing container. Gradually add Velwiin Tile Grout powder while mixing slowly using a hand mixer or a low-speed mechanical mixer (below 300 RPM) until a smooth, lump-free paste is obtained. Do not over-mix or use high-speed mixing, as excessive air entrainment may reduce the grout performance. Allow the mixed grout to stand for 2–5 minutes, then remix briefly before application. Use the prepared grout within approximately 60 minutes.

APPLICATION

Using a rubber grout float, press the mixed grout firmly into the tile joints until they are completely filled.

Hold the grout float at approximately 90° and move it diagonally across the joints to ensure proper filling and to remove excess material.

Work in small sections for better control and uniform joint filling.

Make sure the grout fills the entire depth of the joint and is not merely spread over the surface.

Remove excess grout from the tile surface before it begins to harden.

CLEANING & FINISHING

Clean excess grout from the tile surface within 30–45 minutes or before the grout starts to harden.

Use a clean, damp sponge to wipe the surface in a circular motion without disturbing the grout joints.

Frequently rinse the sponge with clean water during cleaning.

After the grout has cured, remove any remaining haze using a suitable tile cleaner.

Clean all tools and mixing equipment with clean water immediately after use.

PRECAUTIONS & NOTES

Do not apply the grout on wet or moisture-containing joints.

Always ensure that the tile joints are clean, dry and free from contaminants before grouting.

Avoid excessive mixing, as over-mixing may reduce the working time and affect the final performance.

Do not allow grout residue to dry on the tile surface. Clean the surface promptly using a damp sponge or suitable cleaning pad.

Replace cleaning water frequently during finishing to avoid grout haze.

Prevent water from entering freshly grouted joints until the grout has sufficiently cured.

Protect the grouted surface from rain, running water and foot traffic for at least 24 hours after application.

For natural stone or highly porous tiles, conduct a trial application before grouting to check for possible staining or colour absorption. If necessary, use a suitable tile sealer prior to grouting.

Always follow the recommended mixing ratio for optimum performance.
Store the product in its original sealed container and use before the expiry date.

PACKAGING

- 250 ml HDPE Bottle
- 500 ml HDPE Bottle
- 1 Litre HDPE Bottle

SHELF LIFE

12 months from the date of manufacture when stored in the original unopened container under cool, dry conditions, protected from direct sunlight, moisture and extreme temperatures.

SAFETY PRECAUTIONS

Keep out of reach of children.

Wear suitable protective gloves, safety glasses and protective clothing while handling the product.

Avoid prolonged contact with skin and eyes.

In case of skin contact, wash thoroughly with clean water.

In case of eye contact, rinse immediately with plenty of clean water and seek medical attention if irritation persists.

Intended for professional use only.

Refer to the latest Safety Data Sheet (SDS) for complete health and safety information before use.

COVERAGE

The consumption of Velwiin Grout Hardener depends upon the quantity of Velwiin Cementitious Tile Grout being prepared.

RECOMMENDED MIXING RATIO

Velwiin Tile Grout	Velwiin Grout Hardener
1 kg	200 ml
5 kg	1 Litre
20 kg	4 Litres

Manufactured By : Velwiin Chemicals

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