

# MARLDON FIBRE REINFORCED SMOOTHING COMPOUND 20KG MXS110 250043

## PRODUCT DESCRIPTION

Marldon MXS110 Fibre Reinforced Smoothing Compound is a high-performance, rapid setting and moisture-tolerant smoothing compound suitable for internal applications. Designed for enhanced strength and flexibility, it provides a smooth, durable surface ready to receive a wide range of floor coverings.

MXS110 is specifically designed to meet the strength requirements for the installation of bonded timber floors. Suitable for use over various substrates, MXS110 has excellent flow characteristics and is dimensionally stable, making it suitable for use with underfloor heating systems and below damp proof membranes. This protein-free smoothing compound is rapid setting and leaves an excellent surface finish.



Composition	Cementitious based and protein free					
Working Time	30mins at 20°C					
Working Temperature	+5°C - 30°C					
Compressive Strength	After 28 days 25 N/mm <sup>2</sup>					
Flexural Strength	After 28 days 7 N/mm <sup>2</sup>					
Protein Content	Nil					
Thickness	2-50mm					
Mix Ratio Per 20kg	4.5L - 5L of water					
Approx Coverages	2mm 6.5m <sup>2</sup>	3mm 4m <sup>2</sup>	5mm 2.5m <sup>2</sup>	10mm 1.25m <sup>2</sup>	20mm 0.6m <sup>2</sup>	50mm 0.25m <sup>2</sup>
Cure Time	Walk on time 90mins at 20°C. Resilient floor coverings can be installed after 3 hours. Wood flooring can be installed after 24 hours. Higher temperatures and lower humidity will shorten the drying time and lower temperatures and higher humidity will extend the drying time.					
Drying Time	Moisture sensitive floor finishes can be installed when the screed is dry to 75% RH as per BS8203, typically after 24 hours, dependent on thickness and ambient conditions (20°C, 50% RH). After 6 hours curing without draughts ensure the area has sufficient ventilation to allow the screed to dry.					
Storage	Store indoors in unopened packaging, off the ground and in cool dry conditions.					
Shelf Life	12 months when stored as recommended in original unopened packaging. High temperatures and humidity will lead to a reduced shelf life.					

This information is given to the best of our knowledge but without liability.

## KEY BENEFITS

- ✓ Fast setting and drying, allowing for foot traffic only 90 minutes after application
- ✓ Fibre reinforced for excellent flexibility
- ✓ Moisture tolerant and suitable beneath DPMs
- ✓ Excellent flow characteristics and application thickness
- ✓ Protein free - will not attract bacteria

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## STANDARDS

Please be aware that all aspects of the installation must be in accordance with the requirements of BS 8204, BS 8203 (Installation of Resilient Floor Coverings) or BS 5325 (Installation of Textile Floor Coverings) and supplementary specifications.

## PREPARATION

Always be sure to check the surface is structurally sound and stable before applying Marldon MXS110 smoothing compound.

Concrete and sand/cement screeds must be fully cured and incorporate an effective damp proof membrane. If the DPM is ineffective or absent or residual construction moisture is present up to 97% relative humidity, apply Marldon MXS140 DPM.

It is recommended that a moisture test is conducted prior to the application of Marldon MXS110.

MXS110 is suitable for use on damp subfloors providing there is no surface water present. It can also be used below damp proof membranes. When used beneath MXS140 DPM to pre-smooth the subfloor, it will increase the coverage efficiency of the DPM.

Ensure the substrate is clean, dry, frost free and free from grease, oil, dirt, dust, loose friable material and any other contaminants (coating, laitance, etc.).

Always lightly abrade calcium sulphate/ Anhydrite screeds to remove all surface laitance, as this can hinder adhesion if not completely removed.

For advice on the treatment and priming of Calcium sulphate/anhydrite screeds please contact the Technical Team who can advise on the products specifically suited to the job in hand.

Marldon MXS110 smoothing compound is not recommended for application over existing floor coverings.

MXS110 smoothing compound can be used with electric and water underfloor heating systems. Must be laid at a minimum thickness of 6mm for water systems and 8mm for electric mat/cable systems. Electric systems must be adhered to the subfloor and UFH manufacturer guidelines must be followed. Switch off underfloor heating systems 48 hours before commencing work. Check with the Marldon Technical Team for more information on specific compatibility.

After using / incorporating with underfloor heating, the system should not be run for 10 days, following this period the floor temperature should be gradually raised to it's optimal operating temperature.

## MIXING

Mix at a slow speed using an electric powered drill and suitable mixing paddle. Mix one full 20kg bag with 4.5L-5L of clean cold water. This will achieve consistent performance of the product. The amount of water can be adjusted between 4.5L and 5L for the desired consistency and flow. Pour the water into a clean bucket and

gradually add the compound. Continue to mix until a lump free, uniform appearance has been achieved. The compound is ready to use immediately after mixing.

Do not add more than 5L of water to the mix as this will reduce the performance of the product.

## APPLICATION

For application on porous substrates Marldon MXS120 Universal Primer must first be applied:

- Sand and cement screed with or without underfloor heating
- Concrete
- Flooring grade plywood and flooring grade chipboard
- Cement based UFH overlay boards
- Backer boards

When smoothing over a timber substrate before overlaying with ply/backer boards ensure the timber substrate is rigid adequately ventilated and free from contaminants, and then prime with Marldon MXS170 textured primer.

For application on non-porous substrates, Marldon MXS170 Textured Prime must first be applied:

- Flooring grade asphalt
- Epoxy DPM
- Ceramic, porcelain and stone tiles
- Steel

Flooring grade asphalt and existing DPMs must be hard, sound and firmly adhered. Existing natural stone, ceramic and porcelain tiles must be in good condition, well bonded and free from contaminants. Make sure the existing structure is suitable



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to take the additional weight. If no DPM is present apply, Marldon MXS140 directly to the tiles or to a pre-smoothing layer of MXS110. Metal must be rigid, corrosion free and clean.

When used over a non-porous substrate prior to bonding a timber or resilient floor covering, it must be applied at a minimum thickness of 3mm.

For application on calcium sulphate/ anhydrite based substrates, Marldon MXS160 Epoxy Primer must first be applied. This ensures separation between the cementitious and Calcium Sulphate based products.

Calcium sulphate subfloors must be confirmed dry with a reading of 75% relative humidity or less and 65% when underfloor heating is present. Underfloor heating must be switched off 48 hours before commencing work. All new heated screeds must be commissioned from 7 days after

installation and before work commences. The screed should be heated slowly as per the manufacturer's recommendations.

Where possible the smoothing compound should be applied in a single application at the desired thickness. If additional layers are needed, allow for the previous layer to completely dry and then prime with Marldon MXS120 primer. Additional layers must not be applied thicker than the previous layer.

If you are unsure on any application or substrate compatibility please contact the Technical team for more information.

Marldon MXS110 Smoothing Compound should be applied directly after mixing. Pour a ribbon of material along the wet edge and then trowel or rake to control the thickness and spread into the desired areas.

Whilst still wet, a spiked roller should be used to blend the flow and trowel lines together, working in a direction perpendicular to the pouring.

### By Pump Application:

Mix according to pump manufacturers recommendations to ensure the correct water ratio is maintained. Flow checks should be performed regularly during pumping. If the product thickness has been applied to allow for the free movement of a spiked roller, use whilst still wet to remove trapped air and blend flow and trowel lines together.

Minimum thickness of MXS110 is 2mm. For application over 50mm (up to 75mm), a sharp sand may be mixed at a ratio of 2:1 by weight - 2 parts MXS110 to 1 part sharp sand. Mix the 20kg bag as normal with clean cold water and then add 10kg of sharp sand and re-mix until sand is thoroughly mixed in.

Always prevent contamination to the substrate from wet trades and spillages.

## HEALTH & ENVIRONMENT

Use in well ventilated conditions and ensure all recommended protective equipment is used during handling and use of this product.

Product health and safety data sheet must be read and understood before the use of this product. Clean all tools afterwards with water. Cured material can be remove

## FOR FURTHER INFORMATION

Contact the dedicated Marldon Technical Team on 01772 696600.

Additional Information: This data sheet is prepared by Marldon Technical Department. The information contained in this technical data sheet is based on present knowledge and current national legislation. The information provided is a guidance on usage, application, health and safety etc, it is not to be construed as a guarantee of technical performance or suitability for particular applications.

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