

# MARLDON SMOOTHING/ LEVELLING COMPOUND 25KG - MXS110

250043

## PRODUCT DESCRIPTION

Marldon MXS110 is a single component high strength, fast drying underlayment smoothing compound for preparation of concrete screeds prior to the application of floorcoverings.

Ideal for use in offices, hospitals, schools, airports and many other high traffic public areas, its high strength is ideally suited for use in areas of excess point loading.

Fast setting and curing time, pump applicable, great resistance to impact and abrasion and suitable for use with underfloor heating systems.



Composition	A combination of natural sands, fillers and Portland cement
Open Time	20 - 30 minutes (at 20°C)
Fire Resistance	EN13501-1 E
Impact Resistance	BS8204 Part 1 Cat: A
Temperature Resistance	+50°C max
Working Temperature	15-25°C (60-77°F)
Ultimate Compressive Strength	EN13892-2: 33 N/mm <sup>2</sup>
Flexural Strength	EN13892-2: 8 N/mm <sup>2</sup>
Shore D Hardness	88
Adhesion To C30 Concrete	28 Days: > 1 N/mm <sup>2</sup>
Shrinkage	< 0.06%
Maximum Particle Size	1mm
Protein Content	Nil
Thickness	3-40mm
Laying Temperature	5°C - 25°C
Flow Ring (Pump Application)	65 mm diameter x 40 mm high: 220 - 240 mm
Mix Ratio Per 25kg	4.5 - 4.8 litres water
Coverage	An average thickness of 3mm will provide a typical coverage of 5m <sup>2</sup> per bag. The coverage guidelines are based on a flat level surface, additional material should be allowed where the substrate is rough or uneven
Cure Time	10mm thickness - at 10°C walk on in 4 - 8 hours & full traffic 2 days. At 20°C walk on in 2 - 4 hours & full traffic 2 days.
Drying Time	Moisture sensitive floor finishes can be installed when the screed is dry to 75% RH as per BS8201, 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 dry conditions at 25°C, stacked not more than 2 pallets high. Always store away from high levels of moisture.
Shelf Life	12 months when stored as recommended in original unopened packaging. Please note, high temperatures, humidity and moisture 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 a short time after application
- ✓ Rapid installation
- ✓ Protein free, will not attract bacteria
- ✓ Provides good resistance to impact
- ✓ Ideal for use in areas of point loading and overall excessive loading
- ✓ Great self smoothing properties

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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

**Moisture Testing:** In accordance with British Standards 8203. Suitable for application on substrates with <75 % RH.

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

Ensure the substrate is clean, dry, free from oil, dust, plaster spots, and any other loose friable material that may hinder adhesion.

Always lightly abrade Calcium Sulphate/ Anhydrite screeds to remove all surface laitence, 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 MXS 110 smoothing compound is not recommended for application over existing floor coverings.

**Mechanical Preparation:** Using an enclosed shot blasting machine may be necessary and should be followed by thorough vacuuming to remove all loose surface particles and dust.

Concrete and sand/cement screeds must be fully cured and incorporate an effective damp proof membrane.

## MIXING

Mix at slow speed using a electric powered drill and suitable mixing paddle.

Add Approximately 4.5-4.8 litres of clean water to the mixing vessel and add the entire bag of MXS 110 whilst mixing.

Continue to mix until a lump free uniform appearance has been achieved.

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

## PRIMING

Always be sure to check the surface is structurally sound and stable before applying Marldon MXS 110 smoothing compound.

For application on porous substrates Marldon MXS 120 Universal Primer must first be applied.

For application on non-porous substrates, Marldon MXS130 epoxy primer must first be applied.

For application on Calcium Sulphate/ Anhydrite based substrates, Marldon MXS 160 Epoxy Primer must first be applied. This ensures separation between the cementitious and Calcium Sulphate based products.

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

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## APPLICATION

Marldon MXS110 Smoothing Compound should be applied directly after mixing by pouring a ribbon of material along the wet edge and then trowelled to form a smooth, even finish.

**By Pump Application:** A 6 mm by 40mm flow ring should be filled with premixed MXS110. Using a flowchart, a spread ratio of between 220 mm and 240 mm should be obtained to ensure that a correct mix is passing through the pump.

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.

Minimum thickness of MXS110 is 4mm. For application over 8mm, a 3mm clean aggregate can be added to the mix at a ratio of 1:1.

For thicknesses over 8mm up to 40mm prepare the surface with Marldon Rapid Surface DPM blinded with a 1-2mm sized dry silica sand/quartz at 2 kg/m<sup>2</sup>.

Ensure the screed is not subject to draughts during the first 6 hours of curing as this may lead to cracking.

Tape up doorways with polythene to prevent air movement.

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 removed mechanically or by acid etching.

## 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.