



Introduction

MASTERBOARD® is resistant to the effects of moisture. It will not physically deteriorate when used in damp or humid conditions, and can withstand high temperatures and frequent temperature changes. It is therefore suitable for use in suspended ceilings above swimming pools.

Please note: For ceilings installed on the underside of a roof, then consideration will need to be given to insulation of the roof system to prevent formation of condensation in the ceiling void.

Support Framework

Protektor UK Ltd S400 suspended ceiling support system suitable for swimming pool areas. The system is coated for protection to this atmosphere with specially treated fixings, hangers and screws (Consult with the manufacturer - Protektor UK Limited):

- Protektor primary channel (Part 5120) - Section CD 60 x 06 (1), is suspended from the structural soffit using Protektor Nonius adjustable hanging brackets (part 6018) (4), with adjustable upper component and adjustment clips, at maximum 900mm centres.
- The support bracket is secured to the soffit with a fixing suitable for the applied load.
- The CD 60 x 06 primary channel sections (1) are located at 1000mm centres.
- The CD 60 x 06 main channel (panel-mounting) sections (2), are located at 610mm centres. The main channels are attached to the primary channels using cross-connector (Part6102) (6).
- CD 60 x 06 profiles are extended in alignment with straight connectors (Part 6078) (3).
- Protektor perimeter channel sections (Part 5168) (5) are installed at the perimeter walls, using ceramic screws, fixed at the same level as the main channel sections.

Facing Board

9mm Promat MASTERBOARD® 2440mm x 1220mm (7), rebated 4 edges, supported at maximum 610mm centres and fastened with minimum 25mm ceramic screws at maximum 300mm centres.

Back sealing of Facing Board

Back seal the boards with Sika Bonding Primer, in accordance with Sika Liquid Plastics recommendations (consult with the manufacturer, Sika Limited).

Joint Filler

Promat Moisture Resistant Ready-Mixed Joint Filler (consult with manufacturer, Promat UK Limited).

Decorative Coating System

Embed Sikagard-203 W (Steridex) into Sika Reemat Lite reinforcement, applied across full surface of ceiling (consult with the manufacturer, Sika Liquid Plastics).

Decorative Coating System Finish Options (Matt or Low Profile Ripple):

The following method statement outlines the basic steps involved when applying the Sikagard -203 W (Steridex) system. Individual methods of preparation may need to be considered, as will the effect of texture, porosity and surface irregularity on the coverage rates quoted which are intended for smooth flat, sealed surfaces only.

Reference to Sika Liquid Plastics technical data and the application of a test area on site should be undertaken, wherever possible, prior to commencing any application, in order to confirm actual coverage rates and finish achieved.

Once the Promat MASTERBOARD® has been installed, all rebated joints and screw holes should be filled flush to the surface of the board using Promat Moisture Resistant Joint Filler.

PREPARATION:

- Sand all surfaces using fine sandpaper, ie. P400 grade, to achieve a smooth surface
- Wipe down to ensure the surfaces are free from dirt or dust particles
- Ensure surfaces are dry before commencing priming.

PRIMING:

- Apply a coat of Sika Bonding Primer across full ceiling, at a maximum spread rate of 8 m² per litre (equivalent to a minimum quantity of 0.125 litres per m²)
- Leave to dry for a minimum of 1 - 2 hours under normal conditions, or as suggested in the product information, prior to over-coating.

SURFACE REINFORCEMENT:

- Apply an embedment coat of Sikagard -203 W (Steridex) using a minimum quantity of 0.25 litres per m² (equivalent to a maximum spread rate of 4 m² per litre) across full ceiling area
- Whilst wet, insert Sika Reemat Lite reinforcement mat, pre-cut to requirements, followed by rolling with a short pile mohair roller until the mat is completely embedded and thoroughly saturated.
- Check for pinholes and/or exposed matting and apply further material to correct as required.

Note: Individual strips of Sika Reemat Lite reinforcement mat must be joined using a 'splicing' technique, i.e. overlap adjacent pieces by approximately 30mm and cut through both layers using a sharp blade, remove surplus matting and join together to provide a joint free system.

TOP COAT:

a) Matt Finish

Apply a final coat of Sikagard -203 W (Steridex) by airless spray, using a minimum quantity of 0.5 litres per m² (equivalent to a maximum spread rate of 2 m² per litre). Allow to dry.

b) Low Profile Ripple Finish

Apply a coat of Sikagard -203 W (Steridex) by airless spray using a minimum quantity of 0.25 litres per m² (equivalent to a maximum spread rate of 4m² per litre).

While still wet and before any skinning occurs, use a medium pile dry sheepskin roller to backroll using a light even pressure

Overlap previous passes by at least 25mm to avoid any tracking and always finish in one direction.

When complete, apply a further coat of Sikagard-203 W (Steridex) by airless spray using a minimum quantity of 0.25 litres per m² (equivalent to a maximum spread rate of 4m² per litre)

This final coat eliminates any shading effect of the roller passes. Allow to dry.

MOVEMENT / EDGE DETAILING

Once the final coat of Sikagard -203 W (Steridex) is dry, Sikaflex AT Connection may be used to provide an effective seal to gaps where movement may occur. A 6mm fillet is recommended for sealing around window frames, etc.

APPLICATION ADVICE:

Check the finished coating for pinholes and apply further material to correct if necessary. Trials indicate that when spraying Sikagard -203 W (Steridex), the best results are achieved when using a 17 thou tip.

It is advisable that individual coats be applied in contrasting shades to assist operatives in achieving an even thickness and the required overall film build.

Notes:

To ensure that the application of these systems are carried out to a high standard, Sika Liquid Plastics recommend that you contact their Customer Service Department, who will recommend one of their experienced coating contractors.

COMPONENT SUPPLIERS:

Protektor UK Limited

Protektor House, Frederick Road, Hoo Farm Industrial Est., Kidderminster, Worcs. DY11 7RA
Tel: 01562 515200
Fax: 01562 515116
Email: sales@protektor.co.uk

For:

Protektor S400 Suspended ceiling grid system

Sika Limited

Watchmead, Welwyn Garden City, Hertfordshire. AL7 1BQ
Tel: 01707 394444
Fax: 01707 329129

For:

Sikagard -203 W (Steridex).
Sika Bonding Primer.
Sika Reemat Lite reinforcing mat.
Sikaflex AT Connection

AUTHORITY: Promat Recommendation - Based on in-house knowledge and technical experience