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Promat MASTERBOARD®

Moisture Resistant Ceiling and Wall Lining System
for Swimming Pool Applications



Moisture Resistant Ceiling & Wall Lining System

Promat has developed a moisture resistant ceiling and wall lining system specifically for use in swimming pool and other high humidity environments.

The high performance system, which can be used to form a seamless ceiling and wall lining, incorporates **Promat MASTERBOARD®** moisture resistant calcium silicate board, a corrosion resistant metal support structure and a Steridex® protective coating. System benefits include:

- Seamless system providing greater design flexibility
- Tested and warranted system backed by three component manufacturers
- Proven performance when subjected to high humidity and corrosive atmosphere
- Hygienic surface prevents the growth of mould and bacteria
- No risk of warping, disintegration or failure of ceiling or wall lining
- Steridex® protective coating forms the final decorative finish
- Smooth or textured, matt or gloss, hygienic or biocidal surface finish
- BBA certification

Wall linings can be formed using a similarly treated metal support system to 'dry-line' block walls, using Promat MASTERBOARD®. These linings can be finished with Steridex® protective coating or can be tiled using suitable adhesive and grout. For full wall lining details please contact Promat Technical Services Department +44 1344 381 400.

The system has been successfully installed throughout the UK and Ireland in more than 200 swimming pool projects over the last 10 years.

Promat MASTERBOARD® is a versatile Class 0 building board suitable for use in a wide range of both internal and semi-exposed applications. It is the only board to have a BBA certification and over 30 years of proven and tested performance in building applications.

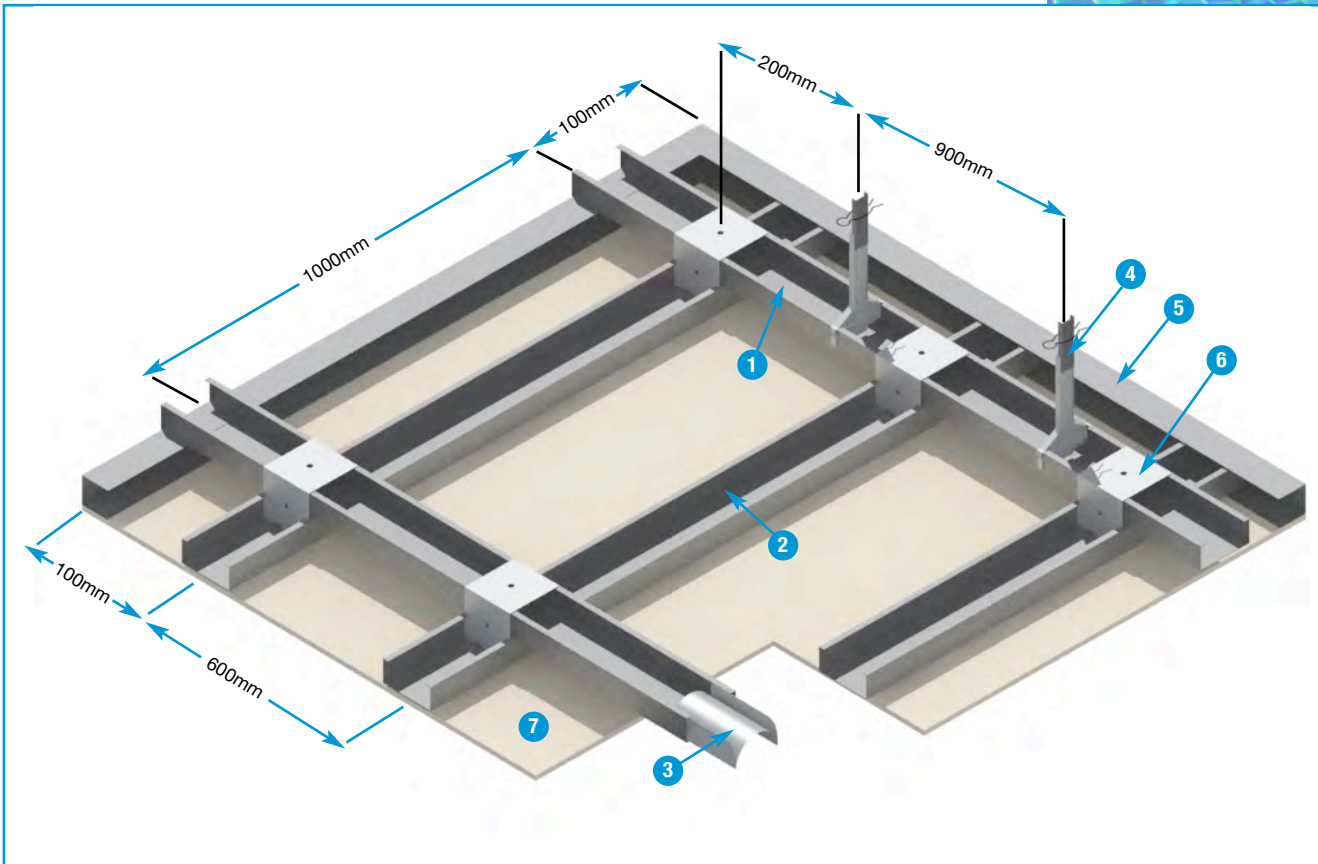
Promat MASTERBOARD® provides up to 30 minutes fire protection, is resistant to the effects of moisture, will not physically deteriorate when used in damp or humid conditions and can withstand high temperatures and frequent temperature changes.

APPLICATIONS include:

- Swimming pool ceilings and wall linings
- Tile backing
- Wet rooms
- Soffit, porch or canopy linings

Note: Steridex® is a registered trademark of Liquid Plastics Limited.

Suspended Ceiling Swimming Pool



Promat MASTERBOARD® Suspended Ceiling over Swimming Pool

TREATED METAL SUPPORT FRAMEWORK

Use Richter System RS 9.2 or Cornercare-Protector S400 suspended ceiling support systems suitable for swimming pool areas. These systems are coated to provide protection from the effects of this environment and use ceramic screws.

- Section CD 60 x 06 (1), is suspended from the structural soffit using adjustable hanging brackets (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 primary channel sections (1), are located at 1000mm centres.
- Main channel (panel-mounting) sections (2), are located at 600mm centres.
The main channels are attached to the primary channels using cross-connector (6).
- CD 60 x 06 profiles are extended in alignment with straight connectors (3).
- Perimeter channel sections (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® 2400mm x 1200mm (7), rebated 4 edges, supported at maximum 600mm centres and fastened with minimum 25mm ceramic screws, at maximum 300mm centres.

DECORATIVE COATING SYSTEM

See pages 4 and 5.

COMPONENT SUPPLIERS

**For RS 9.2 suspended ceiling grid system
Black Star Ceramic screws contact:**

Richter System Limited
18 Fairway Drive, Greenford,
Middlesex, UB6 8TW
Email: info@risy.co.uk
Tel: 0208 747 7480 Fax: 208 747 7489

**For Protector S400 Suspended Ceiling Grid
System contact:**

Cornercare-Protector Limited
Units 2 & 3, Birchen Coppice Trading Estate,
Kidderminster,
Worcester DY11 7QY
Email: sales@cornercare.co.uk
Tel: 01562 515200 Fax: 01562 864063

**For LPL Steridex®; LPL Bonding Primer;
LPL Reemat Lite reinforcing mat;
LPL Hygiene Sealant contact:**

Liquid Plastics Limited
Astral House, PO Box 7, Miller Street,
Preston,
Lancashire PL1 1EE
Email: info@liquidplastics.co.uk
Tel: 01772 259781 Fax: 01772 882016

HEALTH AND SAFETY

A safety data sheet is available from the Promat Technical Services Department +44 1344 381 400 and, as with any other materials, should be read before working with the board.

Decorative Coating System

BACK SEALING OF FACING BOARD

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

DECORATIVE COATING SYSTEM FINISH OPTIONS

(Matt or Low Profile Ripple)

The following method statement outlines the basic steps involved when applying the LPL 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 LPL 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.

Embed LPL Steridex® into LPL Reemat Lite reinforcement, applied across full surface of ceiling. Consult with the manufacturer, Liquid Plastics Limited, for a full list of recommended applicators.

PREPARATION

Sand all surfaces using fine sandpaper, i.e. 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 LPL Bonding Primer across full ceiling, at a maximum spread rate of 8m² 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 LPL Steridex® using a minimum quantity of 0.25 litres per m² (equivalent to a maximum spread rate of 4m² per litre) across full ceiling area.

Whilst wet, insert LPL 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 LPL 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.



Decorative Coating System

TOP COAT

a) Matt Finish

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

b) Low Profile Ripple Finish

Apply a coat of LPL 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 LPL 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 LPL Steridex® is dry, LPL Hygiene Sealant 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.

We would recommend that the sealant is applied prior to the LPL Steridex®, and left to fully cure for a minimum period of 24 hours.

APPLICATION ADVICE

Check the finished coating for pinholes and apply further material to correct if necessary. Trials indicate that when spraying LPL 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.

CASE STUDY

THE K-CLUB, IRELAND

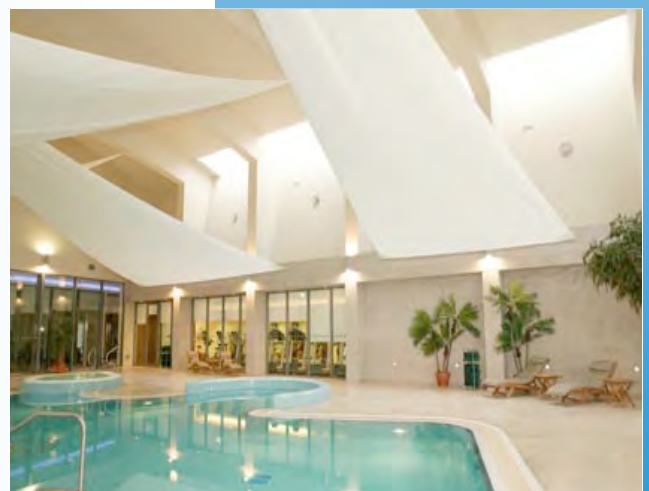
The K-Club Spa includes a 16.5m indoor swimming pool, saunas, steam rooms, a well-equipped gym, even a pilates and yoga studio.

Specialist sub-contractor Mayford Construction installed 1600m² of Promat MASTERBOARD® in the spa's swimming pool hall. It forms the substrate of a fully integrated moisture-resistant lining system used for the ceilings, curved beams and splayed walls.

As a finish, the architects picked Steridex® from Liquid Plastics Limited. It is a plastics-based decorative finish that is anti-microbial and vapour permeable. For the suspended ceilings, they chose a treated coated metal grid system from Richter Systems Limited.

NOTES

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



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