Hydrothane MF

Heavy Duty Polyurethane Screed

DESCRIPTION

Hydrothane MF is a three-pack, water-based seamless, polyurethane floor topping system formulated from carefully selected resins, activators and specially graded high strength aggregates. The product is laid by trowel between 3mm and 5mm thickness.

USES

Hydrothane MF provides a high strength, heavy duty floor topping with excellent resistance to mechanical damage and chemical attack. The Product is ideally suited for use in aggressive environments including chemical process areas, steelworks, food and drink manufacturing areas, diaries, breweries, plating shops, abattoirs, engineering shops, production lines, workshop and warehouse areas.

ADVANTAGES

- **Durable** excellent abrasion resistance, low maintenance costs
- **Chemically resistant** excellent resistance to a wide range of chemicals
- **Seamless** eliminates potential sources of failure
- **Non-slip** non-slip surface for vehicular and pedestrian traffic
- **Hygienic** impervious finish provides easily cleaned surface – can be steam cleaned

PHYSICAL PROPERTIES

Compressive Strength	46 N/mm^2
Tensile Strength	4 N/mm^2
Flexural Strength	9 N/mm^2
Pot Life	15 mins
Service Traffic	24 hours
Full Strength	7 days

(Below 20^{o}C these times will be increased)

CHEMICAL RESISTANCE

Hydrothane MF is resistant to a wide range of chemicals. Specific data is available on request from the Technical Services Department.

COLOURS

Hydrothane MF is available in a limited range of colours and is of a matt appearance. For details refer to colour chart.

TEMPERATURE

It is inadvisable to apply Hydrothane MF when the ambient or slab temperature is below 10^o C or above 40^o C

INSTRUCTIONS FOR USE

SURFACE PREPARATION

It is essential that the substrate surfaces are correctly prepared prior to application. New concrete or cementitious substrates should have been placed for at least 28 days, unless specially water reduced and give a protimeter reading of less than 75% RH before topping with Hydrothane MF. All substrates should be sound and free from contamination with oil, grease and other matter.

Any oil or grease contamination must be removed completely by grinding, scabbling or shotblasting the contaminated areas to provide a sound clean substrate. It may be possible to prepare lightly contaminated areas by treatment with Conren XD80 Degreaser (please refer to the Technical Services Department) Laitance should be removed by vacuum blasting, grinding or light scabbling. Old concrete floors should be prepared by one of the mechanical methods above. To ensure maximum bond is achieved, grooves must be cut into the perimeter of the subfloor. Typically 4mm deep by 3mm wide, 150mm from and running parallel with the walls and adjacent to any doorways, plinths etc. including any finished edge i.e. both sides of a daywork joint. Self smoothing systems should be laid in bays to a typical width of 8 m.

PRIMING

Prepared substrates to be topped with Hydrothane MF should be primed with Hydrothane screed primer. The primer should be applied as a thin continuous film using stiff brushes or rollers. Avoid over application and puddles. The primer aggregate pack can be broadcast over the surface immediately at a rate of 0.25kg/m^2. Porous floors may require two coats of Hydrothane Screed Primer. In this case the aggregate should be applied to the final coat. The primer should be allowed to cure overnight and all loose aggregate should be removed by brushing prior to the application of Hydrothane MF.

MIXING AND APPLICATION

Hydrothane MF screed is supplied in pre-weighed packs ready for on site use. Thoroughly premix the coloured base component ensuring any settled pigment is recovered then add the hardener component and mix to an even consistency (1 minute). Transfer to a rotary drum mixer or similar forced action mixer bowl. Ensure the resin mix is thoroughly scraped out then add the aggregate component steadily in stages and mix for a further 2-3 minutes to ensure a lump free homogeneous compound (4-6 minutes total time).

When thoroughly mixed the compound should be poured evenly over the appropriate area to be covered (monitoring rate of coverage to ensure correct depth of screed). Low floor temperatures and reduced thickness may reduce the flow properties of these products. Work out the mix rapidly and evenly over the area with a notched trowel, pin rake or similar to the appropriate thickness. Roll immediately with a spiked roller to achieve an even smooth surface and remove entrapped air. NB. Spiked rolling should be undertaken immediately after toweling. Do no re-roll later

EDGE DETAILING – Expansion joints in the floors should be maintained in the Hydrothane MF screed topping.

COVERAGE & PACKSIZES

Pack size	Coverage	Recommended Thickness
19kg	2.6 m^2	3mm
19kg	2.4 m^2	4mm
19kg	1.9 m^2	5mm

DISPOSAL

All tools and equipment should be cleaned with Conren Solvent Cleaner immediately after use. Spillage should be absorbed with sand or sawdust and disposed of in accordance with statutory regulations.

STORAGE

Shelf life at least 12 months if stored in original containers between 10^o C and 25^o C.

PRECAUTIONS

For further information on our precautions please see the MSDS.

www.conren.com

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