



Hydrothane MF

HD Polyurethane Screed

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, dairies, breweries, plating shops, abattoirs, engineering shops, production lines, workshop and warehouse areas.

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.

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°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° C or above 40° 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/m². 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 pre-mix 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 troweling. Do no re-roll later.

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

COVERAGE & PACKSIZES

	<u>Pack size</u>	<u>Coverage</u>	<u>Recommended Thickness</u>
Hydrothane MF	16kg	2.6 m ²	3mm
	19kg	2.4 m ²	4mm
	19kg	1.9 m ²	5mm

PRECAUTIONS

The Primer Base, Hardener and Conren Solvent Cleaner are flammable. Do not expose to naked flames or other sources of ignition. Containers should be kept tightly sealed when not in use. In the event of fire extinguish with CO² or foam. Hydrothane MF screed and Primer should not be allowed to come into contact with skin or eyes or be swallowed. Gloves, goggles and a suitable barrier cream should therefore be used. Hydrothane MF Part B contains isocyanates and care should be taken to keep inhalation of vapours to a minimum. Ensure adequate ventilation and if working in enclosed areas. Suitable breathing apparatus must be used. In the event that mixed resin comes into contact with the skin it must be removed before it hardens with a good quality resin removing cream, followed by washing with soap and water. Do not use solvent. If accidental eye contamination occurs irrigate with copious quantities of clean water and seek medical advice. If ingestion of any of the materials takes place seek medical attention immediately. Do not induce vomiting.

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° C and 25° C.

CONTRACTING SERVICE

Conren Limited offers a contracting service for the application of all Conren products. This facility is back by a comprehensive technical and after sales service. We are able to contend with most problems in the field.

TECHNICAL SERVICE & QUALITY ASSURANCE

All information provided in this leaflet is based on results obtained from our own experience and test and is given in good faith. The user will be deemed to have satisfied himself independently of the suitability of Conren's products for his own particular purpose. We guarantee to replace, free of charge, any goods supplied by us which are proved to our satisfaction defective, but, as the application of these materials is necessarily beyond our control, we will not accept responsibility for any damage or loss arising wholly or in part from these materials. Except as herein provided, any express or implied condition, warranty, statement or representation, statutory or otherwise as to the quality of the goods is expressly excluded.

SPECIFICATION

Heavy-duty floor topping shall be Conren Hydrothane MF Polyurethane Screed.

All products to be applied in accordance with Conren's written instructions.

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