



Hydrothane AS

DESCRIPTION

Hydrothane AS is a three-pack solvent free polyurethane floor topping system formulated from carefully selected resins, activators and specially graded high strength aggregates. The product is laid by trowel between 6mm and 9mm thickness.

USES

Hydrothane AS 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, providing anti-static performance compliant with BS 2050 for industrial applications. Hydrothane AS is suitable for use in areas where a conducting floor with a resistance between 10x4 ohms and 10x8 ohms as laid, is required to control static electricity discharge

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 that can be steam cleaned
- **Anti-static** to BS2050 for industrial application

PHYSICAL PROPERTIES

Compressive Strength	44 N/mm ²
Tensile Strength	4 N/mm ²
Flexural Strength	7 N/mm ²
Specific gravity	2.15
Pot Life	15 mins
Softening Point	101°C
Service Traffic	24 hours
Full Strength	7 days

(Below 20°C these times will be increased)

CHEMICAL RESISTANCE

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

COLOURS

Hydrothane AS is available in a limited range of colours. For details refer to colour chart.

TEMPERATURE

It is inadvisable to apply Hydrothane AS when the ambient or slab temperature is below 13° 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 AS. All substrates should be sound and free from contamination with oil, grease and other matter.

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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 a degreaser (please refer to the Technical Services Department) Excessive 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 20mm deep by 8mm 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. The groove must have a clean square edge and the Hydrothane AS laid into the fill depth. Forming a perimeter anchorage.

PRIMING

Prepared substrates to be topped with Hydrothane AS should be primed with an anti-static 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 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 AS.

MIXING AND APPLICATION

For installation where the concrete floor is not in intimate contact with the earth, then a grind of copper tape at nominal 2m centres need to be applied to the prepared concrete, tails from the grid need to be wired into an earthing circuit. The floor is then primed with the anti-static primer.

Hydrothane AS screed is supplied in pre-weighed packs ready for on site use. Mechanical mixing is essential and a createangle or similar mixer is recommended. Mixers of free fall type are not suitable. Add the total content of the aggregate bag to the mixer and premix for 2-3 minutes. Add the contents of Part B can to the Part A can and mix for 1-2 minutes, using a slow speed drill fitted with a suitable mixing paddle. Then add the mixed resin to the aggregate in the mechanical mixer and mix for a maximum of 3 minutes until the components are thoroughly blended together. Once mixed the material must be used immediately. Apply Hydrothane AS screed onto the cured Hydrothane Screed Primer and trowel out to the required level. To ensure closed textured finish trowel off the screed with a stainless steel or chrome trowel. Care should be taken to avoid leaving trowel marks in the surface. Trowel glide may be improved by smearing the trowel face with a tiny amount of paraffin oil.

COVERAGES & PACKSIZES

Pack size

Coverage

Hydrothane AS	- 30kg	6mm nominal thickness	- 2.5sq.m.
		9mm nominal thickness	- 1.67sq.m

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

PRECAUTIONS

For further information on our precautions please see the MSDS.

Technical Service and Quality Assurance

All information provided in this leaflet is based on results obtained from our own experience and testing which is given in good faith. The information is provided without guarantee as the user will be deemed to have satisfied themselves independently of the suitability of Conren's product for their own particular purpose. Conren Limited cannot be held responsible for any errors as a result of any incorrect information being provided.



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