

HYDROTOP

Flow Applied Matt Topping

Description

A flow applied water based epoxy floor topping designed to be laid with the minimum of effort to provide a smooth dense matt finish which is easily maintained and exhibits good chemical and abrasion resistance. The low odour formulation is ideally suited to food preparation areas, laboratories, showrooms and many other industrial applications. The rapid curing rate and the ability to lay the material in damp conditions make it suitable for use in a wide range of situations. Hydrotop is designed to be laid between 2 - 5mm.

Colours Available

Tile Red, Blue, Light Grey, Slate Grey, Mid Grey, Magnolia, Corn, Mushroom and British Racing Green. Other colours are available depending on quantity.

Advantages

- Provides a smooth matt surface having a degree of slip resistance.
- Resistant to most common chemicals, fats and oils.
- Excellent bonding characteristics even to damp surfaces.
- Suitable for pedestrian, vehicular and forklift traffic.
- Low odour.

Chemical Resistance

Performance of Hydrotop tested by immersion at 20°C against a range of aggressive chemicals.

Acids

Hydrochloric Acid (Conc.)	Poor
Nitric Acid 25%	Poor
Sulphuric Acid 50%	Poor
Lactic Acid 10%	Poor
Acetic Acid 10%	Fair
Citric Acid 20%	Poor

Alkalines

Sodium Hydroxide 50%	Good
Ammonia 10%	Good

Solvents

White Spirit	Good
Methylated Spirit	Good
Xylene	Good
Butanol	Good

Oils

Lubricating Oil	Good
Petrol	Good
Skydrol	Fair
Brake Fluid (FMVSS 116 DOT 2)	Good

Aqueous Solutions

Sodium Hypochlorite (Bleach)	Good
Sugar Solution (Saturated)	Good
Salt (Sodium Chloride Saturated)	Good
Ammonium Sulphate (10%)	Good

It should be noted that the ability of Hydrotop to resist attack is dependent on the temperature and concentration of the chemicals. If in doubt contact Nufins technical department.

Technical Information

Pot Life at 20°C:	45 - 60 minutes
Initial Hardness at 20°C:	Overnight
Full Cure at 20°C:	7 days
Note: The above quoted figures are at 20°C, lower temperatures will result in longer pot life and curing times.	
Coverage @ 2mm:	4.7 M ² /15 kg unit
Min. Application Temp:	5°C
Max. Application Temp:	30°C



Surface Preparation

All surfaces should be clean, dry, free from oil, grease and chemical contamination. Oil and grease can be removed using Desolve. Concrete surfaces should be free from laitance which should be removed by grit blasting or scarifying. If it is not practical to grit blast or scarify, it is possible to acid etch the floor with Chemclean. However, precautions must be made to prevent the concrete from absorbing excess moisture.

It is recommended that concrete substrates should not have a moisture content of more than 75% RH. This can be assessed using a hair hygrometer covered with polythene for 24 hours as recommended by BS 8203. Steel surfaces should be prepared by grit blasting or grinding to remove all loose scale and rust. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

Priming

The prepared surface should be primed using Hydrotop Primer. Mix the Hydrotop Primer by adding the entire contents of the hardener tin to the base tin and thoroughly mix. Once mixed this should be applied to the substrate using a stiff brush or roller. It is essential that the primer forms a continuous film over the substrate and on porous substrates a second application may be necessary. The primer should be allowed to dry overnight for a maximum of 24 hours.

Hydrotop Primer Coverage: 6 - 8 m²/kg.

Mixing

Before mixing the components together the base tin should be stirred to disperse any settlement that may have occurred. Add the entire contents of the hardener tin to the base tin and thoroughly mix. The contents of the mixed material should be transferred to a suitable forced action mechanical mixer such as a Creteangle or Daines. Once mixed the aggregate component should be slowly added and mixed until homogeneous. Once mixed allow to stand for 5 minutes prior to application.

Application Instructions

The mixed Hydrotop should be poured on to the primed floor and spread to the required thickness using a 4mm serrated float. Immediately after trowelling, roll firmly using a spiked nylon roller to release any entrained air and remove trowel marks.

Expansion joints in the floor must be maintained and filled with an appropriate joint sealant.

All equipment should be cleaned immediately after use with clean water.

Packaging

Hydrotop is available in 15 kg units.

Hydrotop Primer is available in 5 kg units.

Storage

Hydrotop and Hydrotop Primer should be stored at room temperature. If stored in cold conditions the containers should be warmed prior to use as this will greatly aid mixing and application.

Hydrotop and Hydrotop Primer should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Hydrotop and Hydrotop Primer, like similar products, are capable of irritating unprotected sensitive skin, we therefore recommend the wearing of gloves and the use of a suitable barrier cream.

Limitations

Minimum application temperature 5°C.

Do not use below 10°C without consulting our Technical Department.

It is recommended that concrete substrates should not have a moisture content of more than 75% RH.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



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