

# SpEC<sup>top</sup> HF

## HEAVY DUTY POLYURETHANE FLOORING

### DESCRIPTION

**SpECtop HF** is a heavy duty polyurethane based floor screed designed to provide excellent resistance to abrasion and chemical attack.

### TYPICAL USES

**SpECtop HF** is used in heavy duty situations such as chemical processing, food processing, brewing and engineering process areas.

### ADVANTAGES

- High durability
- Resistant to abrasion, impact and chemical attack
- Able to be steam cleaned at a thickness of 9mm
- Seamless and hygienic finish
- Contains unique antimicrobial additive
- Excellent chemical resistance
- Easily cleaned
- Anti-slip finish
- Low odour during installation

### TECHNICAL DATA

<b>Compressive strength (BS 6319 Part 2)</b>	59N/mm <sup>2</sup>
<b>Tensile strength (BS 2782:320D)</b>	6.5N/mm <sup>2</sup>
<b>Flexural strength (ASTM D790-84a)</b>	40N/mm <sup>2</sup>
<b>Elastic modulus (BS 2782:320D)</b>	1350N/mm <sup>2</sup>
<b>Slant shear bond strength (BS 6319)</b>	51N/mm <sup>2</sup>
<b>Abrasion resistance by Taber (Loss per 1000 cycles in mg/1000gm load) H<sub>22</sub> wheel</b>	900
<b>RRL Slip resistance</b>	
<b>Wet</b>	60
<b>Dry</b>	80

### Typical results @ 20 °C

<b>Pot Life</b>	15 mins
<b>Initial film gel time</b>	20 mins
<b>Light Traffic</b>	4 - 6 hrs
<b>Light wheeled traffic</b>	12 - 16 hrs
<b>Heavy duty traffic</b>	24 hrs
<b>Fully cured</b>	3 - 5 days

### CHEMICAL RESISTANCE

Excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents.

### APPLICATION

#### Surface Preparation

It is essential that adequate preparation is carried out prior to the application of **SpECtop HF**.

Grit blasting is recommended and must result in the removal of all laitance, grease and oil. The resultant surface should be dry and dust free.

#### Priming

The prepared surface should be primed with **SpECtop Primer FX**.

The contents of the curing agent should be emptied into the contents of the base component and stirred with a spatula until the product appears uniform.

The mixed primer should then be applied to the prepared substrate by a stiff brush at 10-15m<sup>2</sup>/litre. Do not over apply.

If the primer appears to be absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free.

Allow the primer to become tacky prior to applying **SpECtop HF**.

## Mixing

Pre-mixing of the coloured liquid component is recommended to ensure any light settlement is re-dispersed. Thoroughly scrape the contents of the liquid colour component into the brown hardener component and mix for a minimum of 1 minute or to provide a homogeneous mix. The resultant mixture should then be loaded into a rotary drum mixer and the aggregate component added in stages, mixing until a lump free consistency is obtained. Apply to pre-primed areas and level with a pin rake as necessary and lightly touch up with a trowel.

## Application

Immediately after mixing apply **SpECTop HF**. Spread out using a trowel and finish using a medium pile roller. Ensure product is not allowed to pond over the blinded substrate to ensure an even textured finish is achieved. Coving can be formed using **SpECTop HF Coving Mortar**.

## EQUIPMENT CLEANING

Clean with **SpECTop PU Cleaning Fluid** before the product has cured.

## APPLICATION TEMPERATURE RANGE

Minimum	5 °C
Maximum	30 °C

Maximum moisture content of substrate 10%

## PACKAGING & YIELD

**SpECTop HF** is supplied in a 29.64kg unit with a coverage rate of 18kg/m<sup>2</sup> at 9mm or 12kg/m<sup>2</sup> at 6mm.

## STORAGE & SHELF LIFE

Stored unopened in dry conditions at 10 - 25 °C, shelf life will be 12 months minimum.

## HEALTH & SAFETY

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets available from **SpEC** on request.

## FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

Issue 3 : 09/2007

QA-054

Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

## SPECIALITY ENGINEERING CHEMICALS

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696  
E-mail: info@spec.ae; Skype ID: spec.sales

[www.spec.ae](http://www.spec.ae)