



# PACTOTop ES

## Abrasion and Chemical Resistant Epoxy Floor Screed

### DESCRIPTION

**PACTOTop ES** is a three component trowel applied heavy duty epoxy floor screed that produces an extremely dense, durable, chemically resistant floor topping.

### TYPICAL USES

**PACTOTop ES** provides a high abrasion topping. It may be used in industrial and commercial situations to floor surfaces able to withstand mechanical abrasion and the spillage of liquids including aggressive chemicals, in situations such as:

- Industrial floors
- Metal processing and heavy engineering plants
- Warehouses
- Food production plants
- Chemical handling and process areas
- Oil refineries
- Workshops & garages
- Battery rooms

### ADVANTAGES

- Very good bonding strength
- High impact, mechanical and abrasion resistant
- Hard-wearing-durable
- Slip resistant/ Anti skid finish
- Solvent Free
- It may also be suitable for use as a repair medium.
- Available in a range of colors

### TECHNICAL DATA

PROPERTY	TEST METHOD	VALUE
Mixed Density	ASTM D 1475	1.95 kg/ltr $\pm$ 0.05
Volume Solid	ASTM D 2893-91	100 % $\pm$ 1.0
Application Temperature		10 °C – 40 °C
Potlife		50 mins. at 35°C
Initial hardness		15 hrs. at 35°C
Full Cure		7 days at 35°C

PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM C 579-B	>80 N/mm <sup>2</sup>
Flexural Strength	BS 6319-3	30 N/mm <sup>2</sup>
Tensile Strength	BS 6319-7	17 N/mm <sup>2</sup>
Bond Strength	ASTM D4541	>2 N/mm <sup>2</sup>
Abrasion Resistance	ASTM D 1044-85	1000 cycles <20.0mg

### CHEMICAL RESISTANCE CHART

#### Resistant to:

20% Lactic Acid, 5% Acetic Acid, 20% Sodium Hydroxide, 36% Hydrochloric Acid, 20% Sulphuric acid, Bleach, Brake fluid, Engine Oil, Petrol, Diesel, Xylene, Skydrol.

### APPLICATION

#### **Preparation**

It is essential that adequate preparation is carried out prior to the application of **PACTOTop ES**.

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 PACTOTop Primer SF.

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 **PACTOTop ES**.



### Mixing

Stir the base and hardener components separately. If coloured Pactotop ES is being used, mix the colour part with the base prior to mixing the hardener with the base component. Mix thoroughly with a slow speed drill attached with paddle for at least 1 minute (400-600 rpm). Add entire filler components slowly and continue mixing for two minutes to get uniform and homogenous mix. Scrape the sides, edges and the bottom of the mixing container using a spatula, and continue mixing for a further 2 minutes.

### APPLICATION

Spread the mixed product onto the tacky primer using a wooden float to achieve a uniform thickness. The wooden float should be used for initial leveling and smoothing of the screed to ensure that the surface remains open to allow air release during compaction. Once levels and compaction are achieved a steel float should be applied to provide the final sealed surface.

### APPLICATION THICKNESS

3-10 mm in a single layer.

### EQUIPMENT CLEANING

All equipment may be cleaned of uncured material using PACTOTop Cleaning Fluid.

### PACKAGING

20 liter set (other packaging available on request).

### YIELD

Coverage depends on application techniques and surface conditions, but is usually 0.21 m<sup>2</sup>/ltr @5mm thickness

### PACTOTop Primer SF

@ 10-15m<sup>2</sup>/litre

5 litre pack gives 50-75m<sup>2</sup>

### STORAGE AND SHELF LIFE

When stored in a cool environment, in original unopened containers, the material has a shelf life of 12 months.

### HEALTH AND SAFETY

Contact with skin and eyes should be avoided. It is essential that adequate ventilation is provided and all personnel avoid inhaling the vapors produced. If working is necessary in confined area it is strongly recommended that sealed respiratory equipment is utilized.

### Eye Contact

Rinse with copious amounts of clean water and seek medical attention.

### Skin Contact

Rinse with copious amounts of clean water followed by thorough cleaning with soap and water.  
DO NOT USE SOLVENTS

### INGESTION

Seek immediate medical attention.  
DO NOT INDUCE VOMITING

### FLAMMABILITY & FLASHPOINT

PACTOTop ES is not flammable (> 150°C)  
PACTOTop Primer SF (> 60°C) and PACTOTop Cleaning Fluid (> 40°C) are flammable.  
Do not expose to naked flame or other ignition sources.



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