PACTOTop 500 SFB

Solvent-free high build, Epoxy Floor Coating

FLOORING

DESCRIPTION

PACTOTop 500 SFB is a two-part epoxy resin system which produces a high build, hard wearing, chemically resistant floor coating. When required, **PACTOTop NS Grains** may be included to produce a slip resistant surface.

TYPICAL USES

PACTOTop 500 SFB may be used in industrial and commercial situations to provide an abrasion resistant finish in areas subjected to traffic, chemical attack and surface water, such as:

- Car parks
- Loading bays
- Walkways
- Chemical production facilities
- Dairies
- Beverage production units
- Wet working area

ADVANTAGES

- Abrasion resistant
- High build and therefore requiring low maintenance
- Resistant to a wide range of chemicals (see Chemical Resistance Chart)
- Solvent free to minimize disruption
- Variable slip resistance to suit site conditions
- Available in a range of colours to demarcate areas and provide a light reflective floor

TECHNICAL DATA

Typical results after 7 days @ 23°C

Mixed Density	1.35 ± 0.05
Compressive Strength @7 days(ASTM C579-18)	>65N/mm²
Flexural Strength @7 days (ASTM C580-18)	>38N/mm²
Tensile Strength @7 days (ASTM C307-18)	>15N/mm²
Pull off Strength @7 days (ASTM D4541)	>3N/mm²
VOC (USEPA 24)	31 g/l
Water penetration under pressure	NIL

	25 °C	35 °C
Pot Life	45 - 60 min	30 - 45 min
Intercoat time (min)	24 hours	12 hours
Intercoat time (max)	36 hours	18 hours
Exposure times		
Foot traffic	24 hours	18 hours
Vehicular traffic	48 hours	24 hours
Chemicals	7 days	4 days

Solid Content 100%

Typical system thickness (DFT, excluding NS Grains) 500µm

Abrasion Resistance (ASTM D-4060) < 75gm

(No. of Revolution is 1000 & Mass Applied on each Wheel is 1000 g, using CS-17 wheel)

CHEMICAL RESISTANCE CHART

Very good to:

10% Lactic Acid, 10% Citric Acid, 25% Nitric Acid, 10% Acetic Acid, 50% Hydrochloric Acid, 50% Sulphuric Acid, 5% Bleach, Saturated Sugar Solution, Saturated Urea Solution, Petrol, Oil, Kerosene, 50% Sodium Hydroxide, 10% Ammonia, Butanol and Skydrol.

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of **PACTOTop 500 SFB**.

Grit blasting is recommended to ensure the removal of all laitance, grease and oil. The resultant surface should be dry and dust free. Cracked and damaged areas must be made good with appropriate repair materials.

Priming

PACTOTop 500 SFB may be applied to properly prepared concrete without the use of a primer providing:

-The moisture level of the concrete is less than 75% when tested in accordance with BS8203 Annex 4.

-The wet film thickness for the first coat does not exceed 250µm. It is essential that a wet film thickness gauge is used to monitor average thickness during application.

Otherwise use **PACTOTop Primer** as follows:
The contents of the curing agent should be emptied into 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 10-15m²/litre.
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.
It is essential that the primer is tack-free prior to the application of the topping. The application of **PACTOTop 500 SFB** should commence between 8-24 hours after priming. If this period is exceeded, then the surface of the primer should be lightly abraded before re-application of a fresh priming coat.

Mixing

PACTOTop 500 SFB is supplied in a two-component kit consisting of a curing agent and a pigmented base component.
Both of the liquid components should be briefly stirred to ensure that any settlement products are fully suspended.
Empty the entire contents of the curing agent into the base component. To ensure that all material is extracted, the insides of the tins should be scrapped. The curing agent and the base component should be mixed with a slow speed, heavy duty electric drill and a spiral mixing paddle for at least five minutes and until the material appears uniform in colour and consistency.

Application

The first coat of **PACTOTop 500 SFB** is applied by a medium pile roller at a desired wet film thickness
The quantity of material used per coat and the number of coats may vary depending on the porosity of the substrate and the surface profile.
If a slip resistant profile is required, the first coat is completely blinded with the chosen grade of **PACTOTop NS Grains.** This should be carried out while the coating is still wet.

When the first coat has reached its initial cure (12 hours @ 20°C), the excess aggregate should be removed by vacuum from the surface.

The topcoat is then applied by medium pile roller. Where a smooth finish is required, the top coat is applied as per the first coat.

For slip resistant floors the topcoat of **PACTOTop 500 SFB** should provide a continuous film of material and also completely seal the surface of the **PACTOTop NS Grains.** The consumption rate of materials for this type of application will be heavier for the top coat due to the increase in the effective area to be coated.

EQUIPMENT CLEANING

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

PACKAGING AND YIELD

PACTOTop 500 SFB
20 litres
2m² / litre @ wft. 500 microns

APPLICATION TEMPERATURE RANGE

Minimum	5°C
Maximum	35°C

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 should avoid inhaling the vapours produced.
If working is necessary in confined areas 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

PACTOTop 500 SFB is non-flammable. **PACTOTop Primer** and **PACTOTop Cleaning Fluid** are flammable. Do not expose to naked flames or other sources of ignition.

FLASHPOINT

PACTOTop 500 SFB	> 150°C
PACTOTop Primer	> 60°C
PACTOTop Cleaning Fluid	> 40°C

ASSOCIATED PRODUCTS

PACTOTop CPD Top Coat

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