



SPECIALITY ENGINEERING CHEMICALS

ENGINEERED SOLUTIONS

SpECtop LFE2 & LFE4

SOLVENT-FREE SELF-LEVELLING EPOXY FLOOR SCREED



DESCRIPTION

SpECtop LFE2 & LFE4 are pre-packed, three component self smoothing screed, which consist of a graded filler in epoxy binder.

TYPICAL USES

SpECtop LFE2 & SpECtop LFE4 may be used in industrial and commercial situations to provide long lasting finishes in particular where an impervious, abrasion resistant and easy to clean floor is required.

SpECtop LFE4 is designed for use in abrasion or impact loading situations.

SpECtop LFE2 & SpECtop LFE4 are designed to be used in a variety of situations, such as:

- Engineering, production and maintenance areas
- Warehousing
- Food production, for example dairies, bakeries, fruit/vegetable processing and canning plants
- Beverage production and bottling facilities
- Medical and Pharmaceutical factories, for example in production areas and laboratories
- Kitchens, laundries and canteens
- Showrooms and demonstration areas

ADVANTAGES

- Impact and abrasion resistant
- Resistant to a range of acids, alkalis and industrial chemicals
- Hygienic and easy to clean finish
- Will not support the growth of bacteria, fungi and micro-organisms
- Seamless
- Minimum downtime due to fast application
- Completely non-toxic once fully cured
- Available in a range of colours to provide

TECHNICAL DATA

PROPERTIES

VALUES

Typical results @ 20°C

Compressive strength (BS 6319)	40±5 N/mm ² @ 7 days
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Flexural strength (BS 6319)	25±5 N/mm ² @ 7 days
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PROPERTIES

VALUES

Exposure times

Foot traffic 48 hrs

Vehicular Traffic 7 days

Chemicals 7 days

Pot Life @ 25°C 40 - 60 minutes

Typical system thickness

SpECtop LFE2 2mm

SpECtop LFE4 4mm

ANTIBACTERIAL ACTIVITY TEST, ISO 22196 : 2011

Escherichia, Lethality	> 99.98 %
Staphylococcus Aureus, Lethality	> 99.98 %
Enterobacteriaceae, Lethality	> 99.98 %
Salmonella, Lethality	> 99.98 %
Campylobacter spp, Lethality	> 99.98 %
Listeria monocytogenes, Lethality	> 99.98 %
Pseudomonas aeruginosa, Lethality	> 99.98 %

CHEMICAL RESISTANCE CHART

15% Lactic Acid	Resistant
10% Citric Acid	Resistant
50% Phosphoric Acid	Resistant
Concentrated bleach	Resistant
Saturated Urea Solution	Resistant
White spirit	Resistant
Oils	Resistant
Petrol	Resistant
Diesel	Resistant
Greases	Resistant
10% Ammonia	Resistant
50% Hydrochloric acid	Resistant
50% Sulphuric acid	Resistant
10% Nitric acid	Resistant
Saturated sugar solution	Resistant
Xylene	Resistant
Caustic	Resistant

Notes:

- SpECtop LFE2 & LFE4 should not be subjected to chemicals until fully cured (min 7 days @ 30°C)
- If chemical spillage occurs then immediately remove the spillage and wash down with water to prevent any attack or discolouration





APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of SpECtop LFE2 & LFE4.

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

Priming

The prepared surface should be primed with SpECtop Primer F1/ SpECtop Primer EP121/ SpECtop Primer FX/ SpECbuild Primer E1.

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 roller at 0.1 - 0.2 litre/m².

If the primer appears to be absorbed into the surface easily, it will be necessary to apply a secondcoat once the initial coat is tack-free. Alternatively, you may apply one coat of SpECtop Scratch Coat at 0.3 - 0.5 litre/m². Please refer to SpECtop Scratch Coat TDS.

It is essential that the primer is tack-free prior to the application of the topping. The application of SpECtop LFE2 or LFE4 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

SpECtop LFE2 and LFE4 are supplied in a three component kit consisting of a base component, a curing agent and a bag of graded filler.

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 and the base component into a 25 litre metal container with straight sides, sturdy enough to withstand the mixing action. To ensure that all material is extracted, the insides of the tins should be scraped.

The curing agent and base component should then be mixed with a low speed, heavy-duty electric drill and a spiral mixing paddle for at least two minutes and until the material appears uniform.

The aggregate is slowly added to the resin whilst mixing and the mixing operation continues for a further 5 minutes.

Application

A quantity of the mixed product should be poured onto the tack free primed surface and floated with a steel trowel to produce a seamless surface. SpECtop LFE2 can be laid at a thickness range of between 2 - 3mm and SpECtop LFE4 between 3 - 5mm.

The material should be poured IMMEDIATELY.

EQUIPMENT CLEANING

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

PACKAGING AND YIELD

Both grades of material are supplied as three part systems with the following coverage rates.

SpECtop LFE2 @ 2mm	15 litres 0.50 m ² /litre
SpECtop LFE4 @ 4mm	15 litres 0.25 m ² /litre
SpECtop Primer F1 10m ² /litre @ 100µm WFT	1 litre pack gives 10-15m ² 5 litre packs gives 50-75m ²
SpECtop Primer EP121 10-20 m ² /l/coat	5 litre units. Application rate is 50µ to 100µ thickness
SpECtop Primer FX 10 m ² /litre @ 200µm WFT	1 litre pack gives 10-15m ² 5 litre packs gives 50-75m ²
SpECbuild Primer E1 5 m ² /litre	1, 2 and 5 litre units.

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.

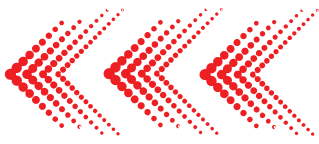
HEALTH AND SAFETY

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

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

SpECtop LFE2/LFE4, SpECtop Primer FX, SpECtop Primer EP121 is non-flammable.

SpECtop Primer F1, SpECbuild Primer E1, and SpECtop Cleaning Fluid are flammable. Do not expose to naked flame or other sources of ignition.

Issue 14: 01/2026

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.

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