SpECtop WDE100

WATER DISPERSED EPOXY RESIN, FLOOR & WALL COATING


Traffic & mechanical wear


Chemical Resistance


Slip Resistance


Hygiene


Impact Resistance


Waterproof


VOC Free


Cleaning & Maintenance


Colour Shades

DESCRIPTION

SpECtop WDE100 is water dispersed epoxy coating consisting of two component parts for mixing on-site. The coating, once cured, produces a strong semi-flexible layer with good adhesion to cementitious substrates. It is available in matt or gloss finishes.

SpECtop WDE100M - Matt finish
SpECtop WDE100G - Gloss finish

TYPICAL USES

SpECtop WDE100 may be used in industrial and commercial environments to provide a hard wearing coating to floors and walls, such as:

- Potable water tanks and reservoirs
- Storage areas
- Kitchens
- Food production areas
- Abattoirs
- Showrooms
- Warehouses - light traffic

ADVANTAGES

- High durability, requires low maintenance
- Solvent free, odourless, non-toxic and non-flammable
- Resistant to a wide range of chemicals (see Chemical Resistant Chart)
- Easy to clean, hygienic finish
- Slip resistance available
- Available in a range of colours to demarcate areas and provide an attractive light reflective floor.

RELEVANT STANDARD

B.S. 6920 - Effect on water quality

TECHNICAL DATA

Typical results @	***20 °C***	***30 °C***
Pot life	3 hrs	1½ hrs
Intercoat time (min)	6 hrs	3 hrs
Intercoat time (max)	24 hrs	16 hrs
Initial hardness	24 hrs	16 hrs
Immersion in water	14 days	10 days
Tack free time	5 hrs	3 hrs
Exposure times		
Foot traffic	24 hrs	12 hrs
Vehicular Traffic	48 hrs	24 hrs
Chemicals	10 days	7 days
Typical system thickness	100µm	

CHEMICAL RESISTANCE CHART

50% Phosphoric Acid	Very good
50% Sulphuric Acid	Very good
Saturated Urea Solution	Very good
White spirit	Very good
Oils	Very good
Petrol	Very good
Diesel	Very good
Greases	Very good
Xylene	Very good
10% Ammonia	Very good
50% Caustic soda	Very good
Chlorinated water	Very good
Skydrol	Good
Saturated sugar solution	Good

Note:

- If chemical spillage occurs, immediately remove the spillage and wash down with water to prevent any attack or discolouration.

APPLICATION

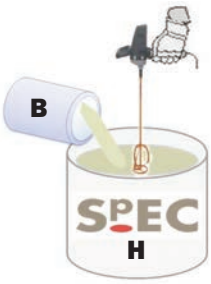
Preparation

It is essential that adequate preparation is carried out prior to the application of **SpECtop WDE100**. Light sweep blasting is strongly recommended to ensure the removal of all laitance, grease and oil. Etching with dilute hydrochloric acid may be carried out in very light traffic environments **providing the floor is neutralized, wet vacuumed and allowed to dry prior to application**.

Mixing

SpECtop WDE100 is supplied in a two-component pack consisting of a base component and a pigmented curing agent.

Both of components should be briefly stirred to ensure that any settlement products are fully suspended.



The entire contents of the base component should be emptied into the hardener component ensuring that the sides of the base component tin are carefully scraped to remove all the material.

The product should be mixed until uniform, using a slow-speed, heavy-duty drill and mixing paddle, for at least 3 minutes.

Application

The mixed product may be applied by brush or paint roller. The recommended consumption rate is 14.00 m²/litre per coat (0.014m³), applying a minimum of two coats.

The quantity of material used per coat and the number of coats may vary, dependent upon the porosity of the substrate and the surface profile.

The application of excessive volumes of product should be avoided as this will result in water entrapment affecting the subsequent performance of the coating.

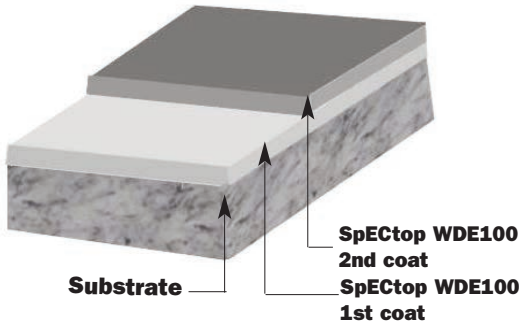
Slip Resistant Finish

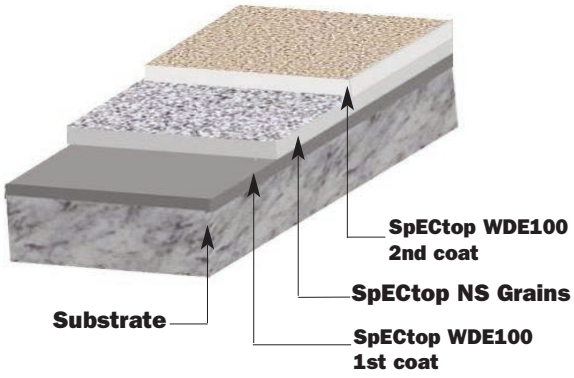
If a slip resistant finish is to be provided, then **SpECtop NS GRAINS** is required.

SpECtop NS GRAINS are supplied in pre-weighed bags.

For a slip resistant profile, the first coat of **SpECtop WDE100** is completely blinded with the chosen grade of **SpECtop NS GRAINS**. This should be carried while the first coat is 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 top coat is then applied by medium pile roller.





EQUIPMENT CLEANING

All equipment may be cleaned of uncured material using water.

APPLICATION TEMPERATURE RANGE

Minimum	5°C
Maximum	35°C

At ambient temperatures above the quoted maximum the pot will be reduced.

PACKAGING AND YIELD

SpECtop WDE is supplied as a two-part system with the following recommended coverage rate.

SpECtop WDE100	
4.5 litre and 15 litre	
@ 70µm wft:	14.00m² (0.014m³)/ litre per coat (minimum of 2 coats)
SpECtop NS GRAINS	25kg bags @ 2kg net/m²
Size	0.4 - 0.7mm

NB. When ordering, please specify matt or gloss finish.

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.

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.

FLASHPOINT

SpECtop WDE100	>150°C

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