SpECtop ARE300

SOLVENT BASED, HIGH BUILD EPOXY RESIN FLOOR COATING

Traffic & mechanical wear | Chemical Resistance | Slip Resistance | Hygiene | Impact Resistance | Waterproof | Cleaning & Maintenance | Colour Shades

DESCRIPTION

SpECtop ARE300 is a two-component solvent based epoxy resin coating. The product forms an extremely hard and durable coating, which is easily cleaned.

TYPICAL USES

SpECtop ARE300 provides a coating, which is extremely durable and hardwearing. It also has a high resistance to chemical attack. It is particularly suited to application in areas which are heavily trafficked where maintenance-free life is important. It is suitable in most industrial applications such as dairies, beverage plants, showrooms, kitchens, assembly areas in production units, covered car parks and aircraft hangers.

ADVANTAGES

- Range of colours
- Excellent chemical resistance
- Impermeable surface ensuring ease of cleaning
- Extremely hard wearing enabling long periods between maintenance work

TECHNICAL DATA

Tack free time	3 - 5 hours at 20°C
Pot life	3 hours at 20°C
Time between coats	16 - 24 hours at 20°C
Initial hardness	24 hours
Full cure	7 days at 20°C
Typical system thickness	300µm (dft)

CHEMICAL RESISTANCE

10% Lactic Acid	Very good
15% Lactic Acid	Very good



10% Citric Acid	Very good
50% Phosphoric Acid	Very good
50% Hydrochloric Acid	Very good
50% Sulphuric Acid	Very good
10% Nitric Acid	Very good
Concentrated Bleach	Very good
Saturated Sugar Solution	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
Skydrol	Good

Notes:

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

APPLICATION

Preparation

SpECtop ARE300 must only be applied to adequately prepared substrates, which should be clean and dry to ensure high adhesion properties.

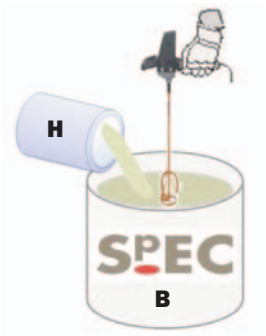
The floor should be at least 28 days old prior to application and the retained moisture should be below a reading of 75% on a hygrometer. The surface should then be acid etched or lightly grit blasted to remove laitance on new floors and contamination, such as oil and grease, from older floors.

It is appropriate to prime very porous floors with **SpECtop Primer F1**.

Mixing

SpECtop ARE300 is supplied in a two-component kit consisting of a curing agent and a pigmented base component.





Both components of **SpECtop ARE300** should be thoroughly stirred prior to being mixed to ensure full dispersion of the suspended material. The total contents of the hardener component should be added to the base tin and mixed for a full 3 minutes using a slow speed electric drill fitted with a mixing paddle.

Application

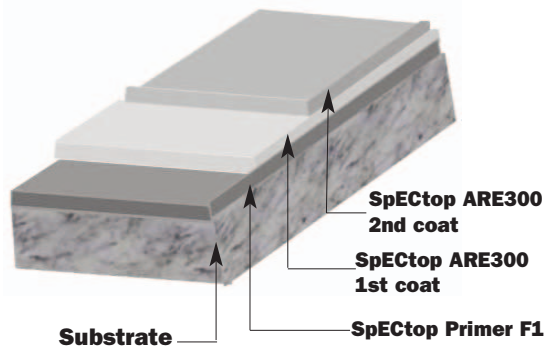
The mixed product should be applied using a stiff brush or a lambswool roller ensuring that the area is covered uniformly avoiding the formation of areas with a wet film thickness in excess of 250 micron. This is best done by the use of a wet film gauge. The final coat may be applied once the first coat has become dry to the touch - typically 16-24 hours at 20°C.

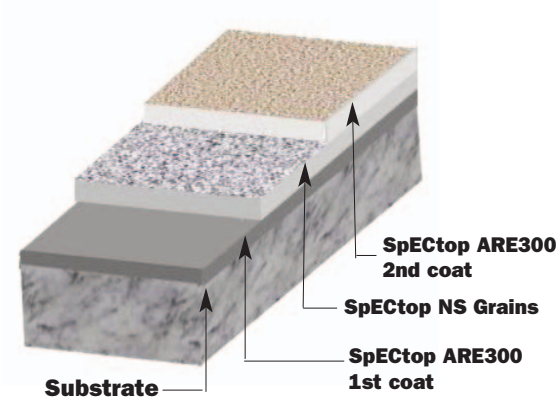
If a slip resistant profile is required, the first coat is completely blinded with the chosen grade of **SpECtop NS Grains**. This should be carried out while the coating is still wet.

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

For slip resistant floors the topcoat of **SpECtop ARE300** should provide a continuous film of material and also completely seal the surface of the **SpECtop 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

SpECtop ARE300 should be cleaned from tools and equipment immediately after use using **SpECtop Cleaning Fluid**.

PACKAGING AND YIELD

SpECtop ARE300 is supplied in the pack sizes

given below with the following recommended coverage rates:

SpECtop ARE300	4.5 litres and 15 litres
@ 225µm wft:	4.0 m²/litre/coat (0.04m³) (minimum 2 coats)
SpECtop NS GRAINS	25kg bags @ 2kg net/m²
Size	Medium 0.4-0.7mm

APPLICATION TEMPERATURE RANGE

Minimum	5°C
Maximum	35°C

STORAGE AND SHELF LIFE

SpECtop ARE300 has a shelf life of 12 months when stored in unopened packs in temperatures between 10 and 30°C and away from sources of heat and naked flame. If stored at higher temperatures the shelf life will be reduced.

HEALTH & SAFETY

SpECtop ARE300 & **SpECtop Cleaning Fluid** should not come into contact with skin or eyes or be swallowed. Avoid inhalation of vapour or spray. Use only in well ventilated areas.

If working in confined spaces, suitable respiratory protective equipment must be worn. Wear suitable protective clothing and eye/face protection, barrier creams or additional skin protection.

FLAMMABILITY

SpECtop ARE300 and **SpECtop Cleaning Fluid** are flammable. No smoking.

In the event of fire, extinguish with CO_2 or foam. Do not use spray.

FLASHPOINT

SpECtop ARE300	>60°C
SpECtop Cleaning Fluid	>40°C

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