

# 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

<b>Tack free time</b>	3 - 5 hours at 20 °C
<b>Pot life</b>	3 hours at 20 °C
<b>Time between coats</b>	16 - 24 hours at 20 °C
<b>Initial hardness</b>	24 hours
<b>Full cure</b>	7 days at 20 °C
<b>Typical system thickness</b>	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

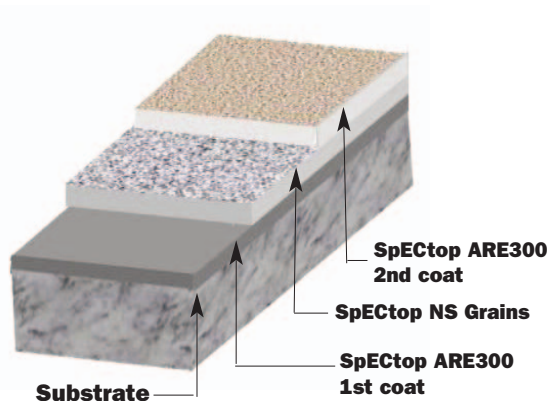
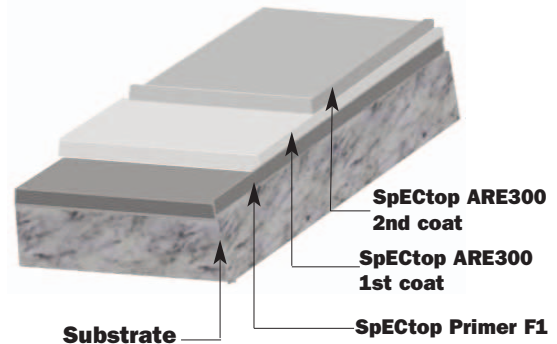
The mixed product should be applied using a stiff brush or a lambswool roller ensuring that the area is covered uniformly avoiding the formation of areas with a wet film thickness in excess of 250 micron. This is best done by the use of a wet film gauge. The final coat may be applied once the first coat 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

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given below with the following recommended coverage rates:

**SpECTop ARE300** 4.5 litres and 15 litres  
@ 225µm wft: 4.0 m<sup>2</sup>/litre/coat (0.04m<sup>3</sup>)  
(minimum 2 coats)

**SpECTop NS GRAINS** 25kg bags  
@ 2kg net/m<sup>2</sup>  
**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<sub>2</sub> or foam. Do not use spray.

#### **FLASHPOINT**

**SpECTop ARE300** >60 °C  
**SpECTop Cleaning Fluid** >40 °C

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Issue 9: 11/2013

**QA-054**

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