

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

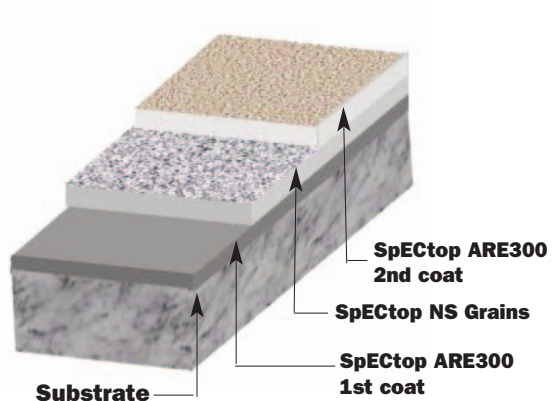
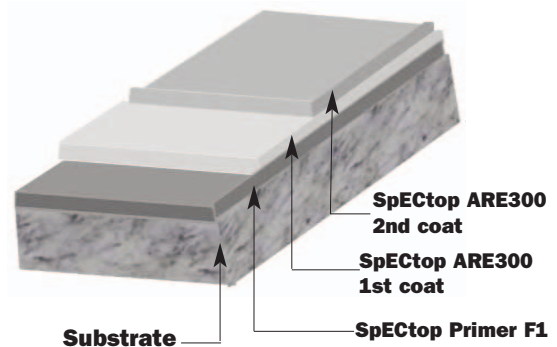
The mixed product should be applied using a stiff brush or a lambswool roller ensuring that the area is covered uniformly avoiding the formation of areas with a wet film thickness in excess of 250 micron. This is best done by the use of a wet film gauge. The final coat may be applied once the first coat 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 CO₂ or foam. Do not use spray.

FLASHPOINT

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

Issue 9: 11/2013

QA-054

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.

SPECIALITY ENGINEERING CHEMICALS

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696

E-mail: info@spec.ae

www.spec.ws