

# Durafloor SLAS

**CEMKRETE**

**High performance water dispersed epoxy self-leveling filled with conductive filler for antistatic purpose (Conductive with  $5 \times 10^4 \sim 1 \times 10^6$  ohms)**

*Innovative products for your success*

## Description

**Durafloor SLAS** is a resin based antistatic floor system comprising of a conductive undercoat topped with a 1 or 2 mm smooth finish epoxy floor surface with controlled electrical properties. The topcoat is available in a wide range of standard colours as shown in the MFRP Engineering colour selection guide. It meets the requirements of the following international standards.

U.K.	BS 2050
GERMANY	DIN 51953
FRANCE	PTT/TR 02-08
U.S.A.	Fed. sped 101C (method 4046)

## Uses

**Durafloor SLAS** is suitable for use in areas where a durable, cleanable, chemically resistant floor surface is required without the attendant risks of static build-up. Typical areas of use are electronic and pharmaceutical clean room environments, flammable solvent handling areas, powder explosion risk areas and electronic "device" handling areas.

## Advantages

- Eliminates static discharge from personnel and vehicles.
- Provides protection against both chemical and mechanical attack.
- Enhances working environment.
- Provides seamless, easily cleaned surface.

## Specification Clause

Floor areas designated for Anti-Static should be covered with an epoxy based 1 or 2mm thick Anti-Static floor topping consisting of a primer coat, thin conductive undercoat and topcoat and should be applied as per manufacturers guidelines and the product should have been independently assessed to the following performance criteria:

Surface resistance to BS 2050	$5 \times 10^4$ to $10^6$ ohms
Volume resistance to DIN 51953	$5 \times 10^4$ to $10^6$ ohms
Charge dissipation	5000 V to zero in less than 0.01 second

## Physical Properties

Thickness	1-2 mm
Compressive strength	60 N/mm <sup>2</sup>
Flexural strength	34 N/mm <sup>2</sup>
Slip resistance	0.65

## Electrical Properties

Resistance to earth	$5 \times 10^4$ to $10^6$ ohms
Static Charge Decay (US Fed. Spec 101C)	Dissipates 5000 V charge to zero in less than 0.01 second

## Chemical properties

**Durafloor SLAS** shows excellent resistance to a wide range of industrial chemicals such as:

Hydrochloric acid  
Citric acid (10 %)  
Sodium Hydroxide (50%)  
White spirit  
Bleach  
Petrol  
Urea (sat.)  
Skydrol

## Limitations

Consult Cemcrete when considering use in explosives handling areas. If the substrate to which **Durafloor SLAS** is applied cracks or moves after application, reflective cracking of the topping may occur. All floors to receive a **Durafloor SLAS** topping should be protected by means of a damp-proof membrane and not suffer dampness from leaking drains or services. **Durafloor SLAS** alone is not suitable for use on rough floors where the mean surface amplitude exceeds 3 mm. Consult Cemcrete on techniques for levelling the floor surface prior to installation.

## Coverage

The coverage @ 2mm thick is approximately 4.5 m<sup>2</sup> / 12kg set. The figures below are based on coverage rates on a smooth surface. A nominal additional 10% should be allowed for surface irregularities and wastage but this will depend greatly on site conditions.

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## Installation

The installation of **Durafloor SLAS** is a specialised activity. Cemkrete always recommends the use of skilled contractors fully conversant with the product properties. Cemkrete maintains a network of sub contractors and can advise on these if needed. The following steps are involved over a normal three-day period.

- Thoroughly prepare the floor surface.
- Laying of copper strip for earthing.
- Apply **Aquarex 1001 AS** primer undercoat by roller to seal the surface.
- Apply **Durafloor SLAS** topcoat and allow to cure completely.
- Clean the floor surface prior to putting into service.

## Maintenance

**Durafloor SLAS** can be cleaned using a rotary scrubbing machine and water miscible cleaning agents. Some of these agents may leave a non-conductive film on the surface of the floor when dry and it is recommended that trials be carried out on alternative cleaners. If surface polishing is considered necessary, note that conventional metallic based acrylic polishes are not suitable for use with **Durafloor SLAS** as they will interfere with the product's conductive properties. Certain "topical antistats" may be suitable but these must be tried before regular use.

## Health and Safety

Some of the components of the **Durafloor SLAS** system are classified as irritants or flammable during the installation phase. Information on the precautions to be taken during the installation phase are contained in the product's Material Safety Data Sheet.

## Additional Information

Cemkrete manufactures and supplies a wide range of those complementary products which includes:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkrete office - as below.

**Important Note:** Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.