

# ALEXFLOOR SC5000F



## Multi Component, Epoxy Mortar Screed and Repair Compound- Fast Hardening

### Description

**ALEXFLOOR SC5000F** is a three compounds solvent free floor screed based on epoxy resin, fast hardening. It is formulated from epoxy resin base, modified polyamine hardener and special selected silica with high strength. applied by trowel to Concrete Substrate in a thickness average 5mm. It provides a durable, on skid chemical & abrasion resistant with high mechanical strength flooring. It is supplied in pre weighted units ready for use on site mixing, the final surface is a slightly granular texture so it is non skid.

### Uses

**ALEXFLOOR SC5000F** is used extensively in the following industries:

- Chemical production and processing.
- Metal processing and engineering
- Food production
- Vegetable and fruit canning
- Ramps
- Bottling room
- Weight bridge
- Meat processing
- Loading pays
- Petroleum factories.

### Advantages

- High mechanical strength, capable of with standing heavy loads highly resistant to abrasion.
- Chemical resistant with a wide range of chemicals .
- Non slip
- Solvent free.
- Formulated to be used in the Middle East climate.
- Easy application (mix and applied)
- Impact resistance.
- Odorless, non harmful vapours
- Impact and abrasion resistance.
- Durable.
- Non shrinkage.
- Easy mix and apply.

### Packing

**ALEXFLOOR SC5000F** is supplied as a 30 kg multi –component pack.

### Colors

**ALEXFLOOR SC5000F** is available in a wide range of colours, light grey, medium grey, dark grey, beige, red, blue and green. Or upon request.

## Properties

<b>Pot Life</b>	30 minutes	20° C.
	20 minutes	30°C
<b>Compressive strength</b>	80N/mm2	
<b>Tensile strength</b>	15N/mm2	
<b>Flexural strength</b>	30 N/mm2	
<b>Full cure</b>	7 days	20 °C
	6 days	30 °C
<b>Bond strength to concrete</b>	3 N/mm2	

## Chemical resistance

Fully cured blocks of **ALEXFLOOR SC5000F** has been tested in wide range of aggressive chemicals commonly found in industrial environments.

Tests were performed by constant immersion at 20° C and at 30° C

The blocks were visually inspected and tested for shore D hardener in accordance with ASTM D2240.

<b>Acids</b>	
<b>Hydrochloric acid 40%</b>	Excellent
<b>Sulphric acid 40%</b>	Excellent
<b>Phosphoric acid 40%</b>	Excellent
<b>Nitric acid 20%</b>	Excellent
<b>Lactic acid 8%</b>	Excellent
<b>Citric acid 8%</b>	Excellent

<b>Alkalis</b>	
<b>Sodium hydroxide 40%</b>	Excellent
<b>Ammonia (0.880)10%</b>	Excellent

<b>Solvents &amp; organics</b>	
<b>Butanol</b>	Good
<b>White spirit</b>	Excellent
<b>Oil/grease/petrol</b>	Excellent
<b>Xylene</b>	Excellent
<b>Skydrol</b>	Good

<b>Aqueous solutions</b>	
<b>Bleach (concentrated)</b>	Excellent
<b>Saturated sugar</b>	Excellent
<b>Saturated urea</b>	Excellent

Suitable for areas of occasional spillage where good housekeeping is in force.  
All the above properties have been determined by laboratory controlled tests and are typical of those expected in practice.

## Surface preparation

Remove all loose particle oil, grease, or any defective concrete.

The surface is to be laid must be flat and roughened.

Surface to receive coating should be dry.

Specialist finishes should not be applied to concrete, which contain more than 5% considered sufficiently dry when the relative humidity at the surface falls to 75% or less when measured with a hygrometer

### **New Concrete floors**

Should be at least 21 days old (at 20° c)  
Laitance deposits on new concrete floors are best removed by light grit blasting.

### **Old concrete floors**

Again, mechanical cleaning methods are strongly recommended on old concrete floors particularly where heavy contamination by oil and grease has occurred or existing coatings are present. These may well have been absorbed several millimeters into the concrete to ensure adhesion all contaminations should be removed by manual or mechanical tools.

### **Guide to application**

#### **Mixing:**

**ALEXFLOOR SC5000F** should be mixed Using mechanical mixer .Mix component (A + B) together first, place component (C) into the mixed resin components (A +B) slowly using a slow speed drill (250 r.p.m) until a thorough mixing is completed till uniform colour is achieved.

Continue mixing after homogeneity by at least 3 min.

#### **Application:**

The mixed material is laid in a thickness of 5mm while the primer (ALEXPRIME EP) is still tacky in one application. The mixed material is raked to the Required Thickness and tamped with a wooden float, or leveled with a screeding bar, to ensure full Compacting. Final finish trowel by steel float to achieve the recommended finish.

### **Over coating:**

In case of required sealed surface a sealer coat should be added by using ALEXPRIME EP (use separate data sheet)

### **Coverage:**

**ALEXFLOOR SC5000F** is approximately covers 3.2 m2 at 5.00mm thickness per30 kg pack

### **Storage:**

Store out of direct sunlight, clear of the ground on pallets protected from rain fall. Protect from extremes of temperatures.

### **Shelf life:**

Up to 12 months if stored in unopened Containers according to the manufactured

### **Guarantee:**

All precaution is taken in manufacture of each product to comply with the standard of each material.

The data sheet for each product for information only and may be corrected and no liability is accepted for it.

The results may have variation because the method of their use condition under which they are applied cannot be anticipated.

### **Technical Service:**

For any technical advice for using the **ALEXCHEM** contact the technical office.