ALEXFLOOR SC300HC

ALEX CHEM
Chemical Construction

Multi Component, High Resistance Chemical Epoxy Mortar Screed and Repair Compound

Description

ALEXFLOOR SC300 HC is a three compounds solvent free floor screed based on epoxy resin 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 3mm.
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 SC300HC is used extensively in the following industries:
•Chemical production and processing Area subjected to chemical.
•Metal processing and engineering
• Food production
• Meat processing
• Vegetable and fruit canning
• Petroleum factories.
• Loading pays
• Ramps
•Bottling room
• Weight bridge

Advantages

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

Packing

ALEXFLOOR SC300 HC is supplied as a 33 kg multi –component pack.

Colors

ALEXFLOOR SC300 HC is available in a wide range of colous, light grey, medium grey, dark grey, beige, red, blue and green.
Or upon request.

Properties

Pot Life	50 minutes	20° C.
	40 minutes	30°C
Compressive strength	80N/mm2	
Tensile strength	10N/mm2	
Flexural strength	20 N/mm2	
Full cure	7 days	20 °C
	6 days	30 °C
Bond strength to concrete	3 N/mm2	

Chemical resistance

Fully cured blocks of
ALEXFLOOR SC300HC has been tested in wide range of aggressive chemicals commonly found in industrial environments.
Tests were performed by constant immersion at20° C and at 30° C
The blocks were visually inspected and tested for shore D hardener in accordance with ASTM D2240.

Acids	
Hydrochloric acid 40%	Excellent
Sulphric acid 40%	Excellent
Phosphoric acid 40%	Excellent
Nitric acid 20%	Excellent
Lactic acid 8%	Excellent
Citric acid 8%	Excellent

Alkalis	
Sodium hydroxide 40%	Excellent
Ammonia (0.880)30%	Excellent

Solvents & organics	
Butanol	Good
White spirit	Excellent
Oil/grease/petrol	Excellent
Xylene	Excellent
Skydrol	Good

Aqueous solutions	
Bleach (concentrated)	Excellent
Saturated sugar	Excellent
Saturated urea	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 SC300HC 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 SC300 HC is approximately covers 5.50 m2 at 3.00 mm thickness per33 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 instructions

Safety precautions:
Avoid contact with eyes, mouth, Skin
Treat splashes to eyes and skin immediately

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.