

REC FLOOR 563

HEAVY DUTY EPOXY RESIN FLOOR SCREED

DESCRIPTION

REC FLOOR 563 is a three-component solvent- free mortar screed based on epoxy resins and specially graded aggregates. It is suitable for use in hot and tropical climatic conditions.

PRIMARY APPLICATIONS

REC FLOOR 563 is used as a non-slip and abrasion resistant epoxy resin flooring screed in applications such as:

- Flooring subject to moderate or heavy loading
- Workshop and factory floors
- Machine shops and warehouses
- Depots and loading ramps
- Hangars
- Car parks with higher anticipated load
- Stairs.

FEATURES/BENEFITS

- Easy and fast to apply.
- Excellent adhesion to substrate.
- The screed may be mechanically smoothed using a plastic-coated disk.
- Non-slip, non-skid finish possible.
- Excellent abrasion resistance.
- High mechanical strength.
- Permeable to water vapor.
- Compatible with suitable REC FLOOR coatings.

TECHNICAL INFORMATION

Appearance and color	Natural / unpigmented
Composition	Epoxy resin and selected natural aggregates
Mixed Density	2.13 Kg/L
Shore D Hardness	~ 85 (7d / +23°C)
Abrasion resistance (CS-10 / 1000 g / 1000 cycles) (ASTM D4060)	<30 mg
Compressive strength (ASTM C579)	≥85 N/mm ² (After 28 Days at 23°C)
Flexural Tensile Strength (ASTM C580)	~35 N/mm ² (After 28 Days at 23°C)
Tensile strength (ASTM C307)	~15 N/mm ² (After 28 Days at +23 °C)
Tensile Adhesion Strength (ASTM D4541)	≥ 2.5 N/mm ² (or concrete failure)

Temperature resistance (ASTM D2485)	+100 °C for 24 hours *No failure or visible surface damage observed.			
Mixing Ratio (A: B:C)	2:1:12			
Consumption	PRIMER	0.3-0.5 Kg/ m ² *Depending on the substrate condition.		
	REC FLOOR 563	~2.20 kg/m ² /mm		
Layer thickness	For heavy duty floor screed	For local repair		
	5- 50 mm	2-80 mm		
Ambient Air Temperature	8-35°C			
Relative Air Humidity	20% - 80%			
Substrate Moisture Content	No rising moisture according to ASTM (Polyethylene-sheet).			
Pot Life	10°C	+20°C	+30°C	
	~75 min	~60 min	~40 min	
*The pot life starts when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The larger the quantity mixed, the shorter the pot life.				
Curing time *Times are approximate and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity.		+10°C	+20°C	+30°C
	Foot Traffic	36 h	36 h	12 h
	Light Mechanical Loading	3 days	2 days	2 days
	Fully Serviceable	10 days	7 days	5 days

DIRECTIONS FOR USE

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. High spots must be removed by e.g. grinding. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the REC FLOOR, REC COAT range of materials. The concrete or screed substrate has to be primed or leveled in order to achieve an even surface. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Stir Component (A) thoroughly with a slow speed electric stirrer prior to batching. Add Component (B) and mix 2-3 minutes at slow speed. Place the pre-batched quantity of Component (C) into the mixer (forced action pan type). Add the prepared resin mix (Components A+B) while the mixer is running, and continue to mix until a homogeneous and uniformly moist mix is obtained.

APPLICATION

- Divide the total area into bays, covering only an area that can be applied within the pot life of the product.
- Place the mixed screed while the primer coat is still tacky.
- Spread the **REC FLOOR 563** mixture evenly onto the substrate using levelling boards and guide rails, by giving it a surcharge over preinstalled batten (e.g. steel guides adjusted to desired height).

- Then tamp down the screed heavily to desired level to give full compaction. When applied in higher thicknesses, compact the screed in layers.
- Level the screed by striking off excess material by running a straight edge ruler across batten.
- Compact thoroughly by tamping.
- Smooth with a hand trowel.
- Finish by steel trowelling / floating.

CLEANING OF EQUIPMENT

Clean all tools and equipment immediately after use with REC CLEANER. Once hardened, the material can only be removed mechanically.

IMPORTANT CONSIDERATIONS

- Always apply "wet on wet" over primer.
- Cementitious substrates must be at least 4 weeks old.
- Failure to assess and treat cracks could lead to reflective cracking and reduced service life.
- **REC FLOOR 563** is not designed to be a decorative or aesthetic finish.
- Fully cured **REC FLOOR 563** can be over coated with suitable REC FLOOR and REC COAT range of coatings.

PACKAGING

REC FLOOR 563 is available in various packaging size in a single kit.

STORAGE

Store **REC FLOOR 563** in its original, unopened packaging in a cool, dry place away from moisture. Avoid direct sunlight and keep bags elevated off the ground. Under proper storage conditions, the shelf life is up to 12 months. Once opened, use the product as soon as possible to avoid moisture absorption.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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