

# ARMOFLOOR S1500

## Self-Smoothing, Solvent Free Epoxy Flooring System

### Description:

ARMOFLOOR S1500 is a multi-component solvent free epoxy floor system designed to provide heavy duty seamless floor coating system with either a smooth or profiled finish. It provides high durability and long-term resistance against abrasion, impact and general chemical spillage.

ARMOFLOOR S1500 can be applied in thick coat between 800 to 1500 micron.

### Uses:

ARMOFLOOR S1500 is designed for a wide range of industrial environments, new and existing trafficked areas. Typical areas of application include:

- Warehouses, storage facilities, industrial floors
- Chemical and pharmaceutical factories
- Aircraft hangers and maintenance areas
- Parking decks, garages and car wash areas

### Advantages:

- Seamless, easy application, low VOC
- Durable with low maintenance
- Good wear and abrasion resistance
- Good mechanical properties
- High build coating in single application

### Instructions for Use:

ARMOFLOOR S1500 should be applied by specialist contractors who must follow the Product Method Statement. Consult with MATEX Technical Department for a list of approved applicators.

### Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete floors are fully cured for at least 28 days after casting in order to allow all shrinkage movements to take place.

Prepare floor using mechanical preparation methods such as: grinding, captive blasting, or sand

blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools.

Perform necessary repairs to cracks, damaged substrate or voids filling by means of proper repair products. Consult MATEX technical department for further advice.

New concrete or cementitious surface should be allowed to cure and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

### Priming:

For highly porous substrates or difficult areas, concrete containing micro silica, apply a rich coat of ARMOPRIME EP100 (a solvent free, high performance epoxy primer to enhance mechanical adhesion between the coating and substrate. The primer should be left to achieve a tack free condition before applying ARMOFLOOR S1500. A second coat of primer may be required if the substrate is excessively porous.

### Mixing:

Mix the contents of Part A (Base) with a low speed mixer to homogenize the content of the container. Slowly add the contents of Part B (Hardener) to the Part A container. Mix the material thoroughly at low speed (200-300 rpm) for about 2 minutes. Then add Part C (Filler) to the mixture slowly ensuring continuous mixing for 2-3 minutes confirming a homogenous, color consistent mixture is achieved. Allow the mix to relax for 2-3 minutes prior to application, to allow entrapped air to escape from the mix. The mixed material must be used within its pot life.

### Application:

ARMOFLOOR S1500 can be applied by brush or roller or using a serrated squeegee and then back rolled maintaining the recommended application thickness.

For antiskid surface, broadcast QUARTZ No. 2 over the still wet basecoat and completely blind the

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surface. After the first coat has cured (12-16 hours at 30°C), remove excess QUARTZ No. 2 using broom & vacuum and apply a second coat of ARMOFLOOR S1500 to the mixed material.

Refer to the below table for consumption rates:

ARMOPRIME EP100	8-10 m <sup>2</sup> /Ltr.	100-125 micron
ARMOFLOOR S1500	Approx. 2.5m <sup>2</sup> /Ltr.	400 microns
For Antiskid Surface: Quartz No. 2	2.0-2.5 kg/ m <sup>2</sup>	
2 <sup>nd</sup> Coat: ARMOFLOOR S1500	Approx. 2.0m <sup>2</sup> /Ltr.	500 microns

**System Thickness:** Approximate: 1.0-1.5 mm

**Standards:**

- ASTM D4060, D4541, C579, C580

TECHNICAL PROPERTIES	
Appearance	Liquid Coating
Mix Density	1.50 ± 0.03 kg/lit
Pot-life time at 25°C	60 minutes
Setting Time / Foot traffic at 25°C	15 hours
Vehicular traffic at 25°C	48 hours
Bond Strength (ASTM D4541)	>2.0 N/mm <sup>2</sup>
Compressive Strength (ASTM C579)	80 N/mm <sup>2</sup>
Flexural Strength (ASTM C580)	32 N/mm <sup>2</sup>
Abrasion Resistance (ASTM D4060)	70 mg/1000 cycle
Shore D Hardness (ASTM 2240)	>75
Water Absorption	NIL
Service Temperature	+5 to 80°C
VOC	8.0 g/lit

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

**Packaging:**

ARMOPRIME EP100	15 Lt.
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ARMOFLOOR S 1500 (A+B+C)	26 Kg. Net
QUARTZ NO. 2	25 Kg. Bag
ARMOSOLVENT	20 Lt. Pail

**Storage:**

ARMOFLOOR S1500 is to be stored in original packing in dry conditions away from direct sunlight in temperature-controlled warehouse.

**Shelf life:**

If stored as recommended, products in the system will remain stable for 12 months from the date of manufacturing.

**Cleaning:**

Tools and equipment should be cleaned with ARMOSOLVENT immediately after use. Hardened materials can only be removed mechanically.

**Remarks:**

- ARMOFLOOR S1500 should not be applied onto surfaces likely to suffer from rising dampness or moisture content.
- ARMOFLOOR S1500 Should not be applied at ambient temperatures less than 5°C.
- ARMOFLOOR S1500 should not be applied to asphalt, weak or friable concrete, PVC tiles or asphalt sheet substrates.
- ARMOFLOOR S1500 should not be applied if the surface relative humidity is more than 75%.
- All existing expansion or movement joints should be followed through the new floor surface.
- Pay attention to aggressive cleaning cycles and temperatures of both chemicals and cleaning regimes.
- Prior to application, ARMOFLOOR S1500 kits should be stored under cover in air conditioning and protected from extremes of temperature which may cause inconsistent workability, finish and cure times of the mixed material.

**Health and Safety:**

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that

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there is adequate ventilation. Do not breathe vapour or spray mist.

## FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to the individual Material Safety Data Sheet of each product in the system.

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