

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 flooring 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:

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 thoroughly the material at low speed (200-300 rpm) for about 2 minute. 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 surface. After the first coat has cured (12-16 hours

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at 30°C), remove excess of QUARTZ No. 2 using broom & vacuum and apply a second coat of ARMOFLOOR S 1500 to mixed material.

Refer to the below table for consumption rates:

ARMOPRIME EP100	4-5 m ² /Ltr.	200-250 micron
ARMOFLOOR S1500	Approx. 2.5m ² /Ltr.	400 microns
For Antiskid Surface: Quartz No. 2	2.0-2.5 kg/ m ²	
2 nd Coat: ARMOFLOOR S1500	Approx. 2.0m ² /Ltr.	500 microns

System Thickness: 1.0-1.5 mm

Standards:

ARMOFLOOR S1500 conforms to:

- ASTM D 4060, C 579, C 580
- BS 6319, PART 7

TECHNICAL PROPERTIES	
Appearance	: Liquid Coating
Mix Density	: 1.5 Kg. / Lt.
Pot-life time at 25°C	: 60 minutes
Bond Strength (ASTM D 4561)	: >2.0 N/mm ²
Compressive Strength	: 80 N/mm ²
Flexural Strength (ASTM C 580)	: 32 N/mm ²
Abrasion Resistance (ASTM D 4060)	: 70 mg/1000 cycle
Water Absorption (BS EN 12310)	: NIL
Shore D Hardness	: >75
VOC	: 8.0 g/ Lt.
Setting Time / Foot traffic at 25°C	: 15 hours
Vehicular traffic at 25°C	: 48 hours
Max Serve Temperature	: +5- 70°C

Packaging:

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

Cleaning:

Tools and equipment should be cleaned with ARMOSOLVENT immediately after use. Hardened material should be removed mechanically.

Storage:

ARMOFLOOR S1500 to be stored in original packing in dry conditions away from direct sunlight.

Remarks:

- ARMOFLOOR S1500 should not be applied onto surfaces likely to suffer from rising dampness or moisture contents.
- Humidity level in substrate not to exceed 5%.
- ARMOFLOOR S1500 should not be applied at ambient temperatures less than 5°C.

Health and Safety:

- Use goggles and gloves during application. Do not breathe the vapor of the product. Use only in well ventilated areas.
- Avoid contact with eyes or skin. In case of contact with eyes, clean with plenty of clean water and seek medical assistance.
- Avoid direct contact with flames and fire.
- Before use, read MSDS of the product.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

