



MultiFloor SL100 2 – 4 mm Self Smoothing, Epoxy Floor Topping

Description:

MultiFloor SL100 is a coloured, three component, self smoothing topping based on epoxy resin. It has a smooth pouring grade consistency that provides a dense, high gloss finish to give a bright aesthetic look that is hygienic and easily cleaned. MultiFloor SL100 has excellent impact and chemical resistance.

Characteristics:

- Resistance to biological growth in accordance with ISO 846.
- Particle release under frictional stress is compliant with the air cleanliness requirements of ISO Class 4 cleanrooms according to ISO 14644-1.
- Attractive; enhances working environment.
- Food Grade.
- Hygienic and easy to clean.
- Non-tainting and non-dusting.
- Hard-wearing and abrasion resistant.
- High chemical resistance grade available.

Uses:

MultiFloor SL 100 is suitable for a wide range of industries & applications particularly laboratories, pharmaceutical production and storage areas, food & beverage manufacturing, factories & warehouses and any areas requiring a high level of hygiene and cleanliness.

Surface Preparation:

Concrete

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate. Concrete surfaces particularly if new, should be fully cured with a maximum residual relative humidity (RH) of 75%, clean and free from contamination such as dust, oil, grease, organic growth, release agents & curing compounds. New concrete surfaces can be finished using a wood or plastic float to achieve a slightly textured finish that may reduce the level of preparation required. Prepare concrete surfaces preferably by mechanical methods such as vacuum shot blasting or grinding to remove laitance, curing compounds and other loose materials and to provide a mechanical key for MultiPrime EP. After preparation, fill all blow holes and surface imperfections using Multi Epoxy Putty (see separate data sheet) to provide an even surface prior to priming or over coating. Allow 24 hours to cure and lightly abrade before over coating.

Priming:

Concrete

Prior to the application of MultiFloor SL 100, prime the prepared surface using MultiPrime EP. Thoroughly stir both parts of MultiPrime EP together in full for at least 2 - 3 minutes until a homogenous consistency is achieved.

Technical Data

Properties	Test Standards	Typical Values
Compressive strength @ 20°C	BS 6319	: 60 N/mm ² @ 7 days
Flexural strength @ 20°C	BS 6319	: 30 N/mm ²
Exposure to foot traffic		: 24 hours
Exposure to vehicle traffic		: 48 hours
Exposure to chemicals		: 7 days
Pot life		: 45 minutes
CHEMICAL RESISTANCE		
15% Lactic acid		: Very good
10% Citric acid		: Very good
50% Phosphoric acid		: Very good
Concentrated bleach		: Very good
Saturated urea solution		: Very good
White spirit		: Very good
Oils		: Very good
Petrol		: Very good
Diesel		: Very good
Greases		: Very good
10% Ammonia		: Very good
50% Hydrochloric acid		: Good
50% Sulphuric acid		: Good
10% Nitric acid		: Good
Saturated sugar solution		: Good
Xylene		: Good

Apply MultiPrime EP using a brush or roller to the prepared concrete surface at a rate of 5 - 6 m² per litre per coat. Allow the primer to become tack free before applying MultiFloor SL 100. A second priming coat may be required if the substrate is particularly porous. Re-prime if the primer coat has not been over coated within 24 hours. Dust and surface contamination must be removed prior to subsequent application of MultiFloor SL 100.

Mixing:

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product. Mechanically mix the entire contents of the resin components together for at least 1-2 minutes until a homogenous consistency is achieved. Do Not Under Any Circumstances Part Mix material.

Empty the mixed resin into a suitable empty container with sufficient volume to accommodate the total yield of the material. Add the powder or aggregate component to the mixed resin component and mix using a slow speed drill and paddle or forced action mixer for an additional 2-3 minutes until a uniform colour & consistency is achieved. Always Add The Powder To The Resin.





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Application Method :

Pour the mixed material onto the prepared surface and spread using a notched trowel. Allow to level naturally then use a spiked roller to release entrapped air and assist in spreading the material further to achieve the desired thickness of MultiFloor SL 100. Expansion joints must be reflected through the product and preferably sealed with a sealant from the Multiseal range. The application should be carried out in a continuous operation without breaks therefore please ensure sufficient materials, equipment and labour are available to achieve this. If the entire area can not be finished in one go, we recommend creating day joints to provide a neat edge to work to for the subsequent application.

Curing:

Allow MultiFloor SL 100 to cure fully for 4-7 days before exposing to full mechanical or chemical conditions.

Cleaning :

Clean tools and equipment immediately after use with Multicleaner.

Storage :

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment. Avoid exposure of mixed & unmixed materials to direct sunlight. Keep equipment that will be in contact with the product cool and away from direct sunlight. Avoid application during the hottest time of day.

Packaging:

MultiFloor SL 100 pack size: 15 litres. Coverage rate approximately 1 litres per m² @ 1 mm thickness.

Shelf Life :

MultiFloor SL 100 has a maximum shelf life of 12 months from the date of manufacture. To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Limitations:

MultiFloor SL 100 is self smoothening but will not self-level, therefore existing undulations may still be apparent. Substrate temperatures should be above 5°C and rising. For application in temperatures above 40°C please refer to hot weather condition recommendations. Avoid application if the work area may be subject to the onset of rain or moving water. Do not part mix under any circumstances. All products should be used within the pot life. Materials not used within the specified time should be discarded. The product should not be thinned with any type of solvent under any circumstances. All epoxy coatings may experience slight colour change on long time service on exposed conditions. If the above general application details do not meet with your requirements, please contact Multitech for a project specific method statement.

Disclaimer:

The information supplied in our literature or given by our employees is based upon extensive experience and together with that supplied by our agents or distributors, is given in good faith in order to help our customers. Our company policy is one of continuous research and development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work. We accept no liability for any loss or damage which may arise as a result thereof.

Health & Safety:

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes. Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting. Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces. Do not expose products to fire or naked flames under any circumstances.

