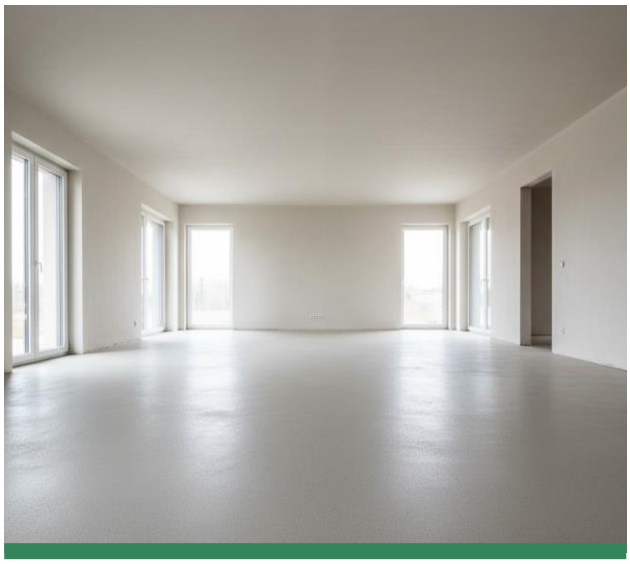
FS151
FLOOR SCREED

FLOOR SCREED FOR INTERIOR & EXTERIOR

PRODUCT DESCRIPTION

OPTIMIX FS151 FLOOR SCREED is a good quality pre-mixed cement-based screeding materials for concrete substrate. Low shrinkage to minimize the formation of surface cracking. Enhanced properties to minimize typical problems of ready-mixed or site-mixed screed.



TYPICAL USAGE

- Levelling screed of typical thickness of 10-50mm for rough and uneven concrete floors.
- Internal and external screed applications for floor slabs, car-park decks, staircases, corridors, walkways, etc.
- Screed to receive common floor finishes such as ceramic tiles, homogeneous tiles, natural stone panels, re-constituted stone panels, etc.
- It is recommended to apply ***OPTIMIX SF818 Self-levelling Underlayment*** or ***OPTIMIX SF828 Self-levelling Overlayment*** over ***OPTIMIX FS151*** if a very smooth surface is required.

FEATURES AND BENEFITS

- Awarded China Green Building Product Certification (Three-Star Level)
- Obtain Carbon Footprint of Product (CFP) and Environmental Product Declaration (EPD)
- Consistent quality
- Simple and easy to use
- Sound solid surface
- Compatible with common finishes
- Low shrinkage
- Good workability
- Efficient operation
- Environmental friendly



TECHNICAL DATA

Product Characteristics	***OPTIMIX FS151***
Compressive Strength at 28 days (MPa)	30
Flexural Strength at 28 days (MPa)	6.0
Bond to Concrete at 28 days (MPa)	1.5
Workability (Flow) (mm)	> 160
Linear Shrinkage at 28 days (%)	< 0.1
Wet Density (kg/m^3)	2000
Typical Mixing Water	4.5 – 5.5 litres
Coverage (kg/mm/m^2)	1.8
Packaging	40 kg
Shelf Life	12 months

Note: The above are typical laboratory test results and can vary slightly depending on the ambient and substrate conditions during application.

Testing Methods	
Flow and Density	BS 4551
Compressive and Flexural Strength	BS EN 196-1
Pull-off Test	HKHA/MTS (2000), Part D 2.1.15
Linear Shrinkage	HKHA/MTS (2000), Part D 2.1.21

Note: The tests were performed according to the national standard or in-house modifications of the corresponding testing procedures





INSTALLATION GUIDE

(Refer to Method Statement for more details)

SURFACE PREPARATION

Substrate must be clean, free from unsound material, oil, grease and other contaminants. It is recommended to clean the substrate with high pressure water jet to remove dust and loose particles. It is recommended to pre-treat the substrate surface with diluted ***OPTIMIX SF80 Primer*** to enhance the adhesion properties and let the primed substrate becomes touch dry or tacky.

MIXING AND APPLICATION

Mix one bag of ***OPTIMIX FS151*** dry powder with 4.5 – 5.5 L potable water. Mechanical mixing with slow speed drill fitted with a suitable paddle is recommended. Mix the ingredients for about 5 minutes or until a lump-free homogeneous mixture is achieved. The mixed mortar should be spread and laid to position within the working life which is dependent upon ambient temperature and relative humidity. The surface can be finished with a wooden float or steel trowel where appropriate.

FINISHING AND CURING

The levelness of the finished surface is largely dictated by the techniques of laying or application methods. The hardened screed should be cured with water spraying for initial several days or be treated with appropriate curing compound to improve the performance. ***OPTIMIX FS151*** does not crack by itself. However, minor surface defects, which pose no detrimental effect to the performance of flooring, may occur due to substrate movement or other external factors beyond our control.

HEALTH AND SAFETY

OPTIMIX FS151 is alkaline in nature and can cause irritations to persons with sensitive skin. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-toxic and is not flammable.

STORAGE

Store in the original unopened bags on pallets with plastic wrapping under dry conditions. Store out of direct sunlight, clear of ground on pallets protected from rainfall. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

ALTERNATIVE PRODUCTS

Other similar products in the Optimix range include:

- ***F50*** Easy Screed
- ***FS161*** Floor Screed (Waterproofing)
- ***FS191*** FLOOR SCREED (INSULATION)
- ***FS192*** Floor Screed (Lightweight)





Important Note: The information contained herein is, the best of our knowledge, true and reliable and is supported by the present state of our knowledge. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives as the conditions of use and any labour involved are beyond our control.

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