



FS161

FLOOR SCREED (WATERPROOFING)

PRODUCT DESCRIPTION

OPTIMIX FS161 FLOOR SCREED (WATERPROOFING) is high quality pre-mixed cement-based screed materials with outstanding water resistance properties over concrete substrate. Low shrinkage to minimize the formation of surface cracking. Replaces the traditional ready-mixed or site-batched floor screed without the need to add liquid waterproofing admixture or latex emulsion.

TYPICAL USAGE

- Levelling screed of typical 10-50mm thickness for rough and uneven concrete floors.
- Screed for concrete floor slabs, car-park decks, kitchen, toilets, roof slabs, etc.
- Screed surface to receive common floor finishes such as ceramic tiles, homogeneous tiles, granite or marble tiles, etc.
- For internal and external applications.
- It is recommended to apply **OPTIMIX SF818 Self-Levelling (Underlayment)** or **SF828 Self-Levelling (Overlayment)** over **FS161** if a very smooth surface is required.

FEATURES AND BENEFITS

- Consistent quality
- Simple and easy to use
- Low shrinkage
- Good workability
- Sound solid surface
- Compatible with common finishes
- Outstanding water resistance
- Environmental friendly



TECHNICAL DATA

Product Characteristics	OPTIMIX FS161
Compressive Strength at 28 days	22 MPa
Flexural Strength at 28 days	5.0 MPa
Bond to Concrete at 28 days	1.0 MPa
Initial Surface Water Absorption	0.02 ml/m ² /s
Workability (Flow)	160 – 175 mm
Wet Density	2000 kg/m ³
Typical Mixing Water	4.5 – 5.5 litres
Coverage	1.8 kg/mm/m ²
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
Initial Surface Water Absorption	BS EN 1232

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

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 FS161** 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 mixture for about 5 minutes or until a lump-free homogenous 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 FS161** 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 FS161 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.

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.



OPTIMIX (HONG KONG) LIMITED

20/F, SUP Tower, 75-83 King's Road, North Point, Hong Kong

Main Line: (852) 2395 5388 Order Hotline: (852) 2802 6433 Fax: (852) 2802 6408

www.optimix.com.hk