

FS192

FLOOR SCREED (LIGHTWEIGHT)

PRODUCT DESCRIPTION

OPTIMIX FS192 FLOOR SCREED (LIGHTWEIGHT) is a high quality pre-mixed cement-based lightweight screeding material over concrete substrate. It fully complies with the Building (Minor Works) Regulation Cap 123N Item 3.41 and 3.42 for thickening of floor slab of domestic and non-domestic flat with solid screed. Moreover, **FS192** achieved grade A1 of National Standard – Classification for Burning Behavior of Building Material and Products, which replaces the traditional use of insulation boards and foam-polymer embed screed. It is also an alternative to the traditional ready-mixed or site-batched air-entrained floor screed.

TYPICAL USAGE

- Levelling screed of typical thickness of 25 – 150 mm for rough and uneven concrete floors.
- For floor escalation to desired level of residential and commercial buildings for install and embedding drainage system & cable trunking.
- Flat and lightweight screed surface to receive common floor finishes such as ceramic tiles, homogeneous tiles, granite or marble tiles, etc.
- For internal applications.

FEATURES AND BENEFITS

- Consistent quality
- Light weight / low density
- Low shrinkage
- Easy to use
- Sound solid surface
- Compatible with common finishes
- Outstanding thermal insulation
- Efficient application

TECHNICAL DATA

Product Characteristics	OPTIMIX FS192
Compressive Strength (28 days)	1.4 MPa
Workability (Flow)	200 – 250 mm
Linear Shrinkage	< 0.1 %
Density	425 kg/m ³
Open to foot traffic	3 days
Typical Mixing Water	6.0 – 8.0 L
Yield*	18 L
Fire Test	A1
Pot Life	Approx. 1 hour
Packaging	7 kg per bag
Shelf Life	6 months

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

** The yield is highly dependent on the water usage*

TESTING METHODS

Compressive Strength	BS EN 1015 – 11, HKHA MTS (00/02) Part D Clause 2.1.1
Fire Test	GB8624

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

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. 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 FS192** dry powder with 6.0 – 8.0 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.

FINISHING

The levelness of the finished surface is largely dictated by the techniques of laying or application methods. A thin layer of cement powder can be scattered evenly onto the freshly laid **FS192** surface and spread by a trowel to improve the surface smoothness and hardness. The hardened screed can be cured with water spraying for initial several days or be treated with appropriate curing compound to enhance the strength performance. **OPTIMIX FS192** 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. It is recommended to apply **OPTIMIX SF80** before subsequent application of cementitious finishing application.

HEALTH AND SAFETY

OPTIMIX FS192 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 the product in the original unopened bags on pallets with plastic wrapping under dry conditions. Protect from direct sunlight, rainfall and exposure to high humidity conditions. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging and reduce shelf life.



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.