

# SF818

## SELF-LEVELLING SCREED



### PRODUCT DESCRIPTION

#### **OPTIMIX SF818 SELF-LEVELLING SCREED**

is specially designed to be easy to mix and apply with a flowable consistency that achieves a smooth and even surface.

It is a proprietary pre-blended cementitious self levelling screed comprising cements, aggregates, modified polymers and additives. It complies to BS EN 13813:2002 and is suitable for foot traffic either untreated or after receiving selected flexible or rigid finishes.

Formulated with low shrinkage to reduce cracking, it can be poured or pumped in thicknesses from 3mm to 20mm in one operation.



### TYPICAL USAGE

- New-build and renovation projects
- Domestic and commercial floors to receive wooden, vinyl, epoxy-resin flooring, ceramic tiles or carpet floor finishes directly
- Suitable for domestic floor without floor finish
- Can be used in apartment units, shopping malls, offices, hotels and schools
- Free from casein and ammonia additives thus is also suitable for hygiene critical areas such as hospitals, kitchens etc.

### FEATURES AND BENEFITS

- Good Workability
- Strong Solid Dustless Surface
- Extremely Flat and Smooth Finish
- Low Shrinkage
- Hand or Machine installation
- Simple and Easy To Use
- Consistent Quality
- Efficient Application

## TECHNICAL DATA

| Product Characteristics         | OPTIMIX SF818 |
|---------------------------------|---------------|
| Compressive Strength at 28 days | ≥ 30 MPa      |
| Flexural Strength at 28 days    | ≥ 7 MPa       |
| Bond Strength at 28 days        | ≥ 1.5 MPa     |

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

| Environmental Data    |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Potential BEAM points | Product is manufactured within 800km of Hong Kong project sites |
| Packaging Composition | Paper bags incorporating 40% recycled paper                     |

| Packaging & Yield   |                          |
|---------------------|--------------------------|
| Wet Density         | 2,050 kg/m <sup>3</sup>  |
| Water Demand        | 5.0 – 5.5 L              |
| Coverage            | 1.7 kg/mm/m <sup>2</sup> |
| Packaging (per bag) | 25 kg                    |
| Shelf Life          | 6 months                 |

*Note: The above are approximate figures and take no account of wastage of any kind.*

| Testing Methods                        |                    |
|----------------------------------------|--------------------|
| Compressive and Flexural Strength Test | BS EN13892-2 :2002 |
| Bond Strength                          | BS EN13892-8 :2002 |

*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

**OPTIMIX SF818** is suitable for installation over any normal cementitious substrates such as concretes and screeds. The underlying substrate must be strong, clean, free from unsound material, oil, grease and other contaminants.

Clean the substrate by brushing and/or spraying with water to remove dust and loose particles then allow to become surface dry before continuing.

It is highly recommended to pre-treat the substrate surface with a primer. This will enhance the adhesion properties but more importantly will minimise pinholes and other surface blemishes caused by a porous, textured or variable substrate.

Use **OPTIMIX Procrete** diluted 1:3 with water as a primer. Apply the diluted primer liberally by brush to ensure complete penetration into the surface. Remove any excess primer while the primer is still wet. Allow the primed substrate to become touch-dry.

### MIXING

Mechanical mixing with a drill (300 – 800rpm) with suitable paddle for at least 2 minutes and until all lumps are fully dispersed

Allow the mixture to stand for about 3 to 5 minutes, then mix briefly again for approximately 20 seconds before pouring the material into place.

The mixed material should be used within 20 minutes.

### APPLICATION

The mortar should be laid to position within the working life and self-healing time of the mixture. This is dependent upon many factors including water addition, water temperature, mixing method, surface condition, ambient temperature, relative humidity, sunlight and drafts.

It is suggested to use a rubber scraper or pin leveler to achieve an even application and to level and combine adjacent wet applications (live edge). In most circumstances optimum effective layer thickness is around 5mm to 8mm. A spiked-roller can then be used to remove the trapped air bubbles and any surface contaminations such as insects can be removed at the same time. These operations should be completed as soon as possible and within working life of the mortar.

For the best results the **OPTIMIX SF818** should be handled as little as possible to achieve smooth and continuous installation. We recommend all applications be done by our skilled approved applicators.

### FINISHING

The finished surface should be flat and smooth, and its levelness is largely dictated by the contour of the substrate. Minor surface defects, which pose no detrimental effect to the performance of flooring, may occur due to substrate contours and texture, substrate movement, uneven drying or other external factors beyond our control.



## HEALTH AND SAFETY

**OPTIMIX SF818** 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 products in a cool and dry place with the original unopened bags on pallets with plastic wrapping. 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.



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