

# SF80
## PRIMER

### LIQUID PRIMER AND MOISTURE SEALER

## PRODUCT DESCRIPTION



***OPTIMIX SF80*** is a premium grade dispersion with extremely fine polymer particles. It penetrates deep into the substrate to enhance bond performance whilst the surface sealing action inhibits the movement of water at the surface.

***OPTIMIX SF80*** is designed as a surface pretreatment agent and bonding primer for most common construction substrates. It is compatible with cement and gypsum based walls and floors and is suitable for application over ceramic tiles, natural stone and other similar absorbent and non-absorbent substrates.

Supplied as a concentrate ***OPTIMIX SF80*** requires only dilution with clean water before use. This provides the most cost effective solution with maximum flexibility for the end user.

## TYPICAL USAGE

- Surface sealing and priming for cementitious self-levelling floor screed
- Bonding agent for cement and gypsum wall plasters and renders
- Surface treatment for substrates for receiving cementitious materials

## FEATURES AND BENEFITS

- Reduced Absorption of Substrate
- Good Adhesion Performance
- Improved Binding of Surface Particles
- Improved Bonding at Interface
- Enhanced Water Resistance
- Low Viscosity
- Low VOC
- Available as White Or Blue Liquid

## TECHNICAL DATA

| **Product Characteristics** [1] | **Untreated (control)** | **2 coats @ 1:3 dilution** | **3 coats @ 1:3 dilution** |
|---|---|---|---|
| ISAT (ml/m$^2$/s) | ~ 0.10 | ~ 0.05 | < 0.01 |
| Tensile Bond (Optimix Self-levelling) (MPa) | ~ 1.8 | ~ 2.0 | ~ 2.0 |
| Tensile Bond (Optimix Skimcoat) (MPa) | ~ 0.8 | ~ 1.1 | ~ 1.1 |

| **Packaging & Yield** | **(Diluted 1:3 with potable water)** |
|---|---|
| Coverage [2] | 0.1 – 0.2 L/m$^2$ per coat @ 1:3 dilution |
| Packing Size | 20 kg per pail |
| Shelf Life | 12 months |

| **Composition** | ***OPTIMIX SF80*** |
|---|---|
| Colour | Milky White / Blue |
| Components | Proprietary Polymer Dispersion and additives |
| Solids Content | > 40 % |

| **Environmental Data** | ***OPTIMIX SF80*** |
|---|---|
| Volatile Organic Compounds (VOC) for Sub-Floor Adhesives | < 50 g/L |
| Potential BEAM points | Product is manufactured within 800km of Hong Kong project sites |

| **Testing Methods** [3] | |
|---|---|
| ISAT | BS 1881 : Part 208 |
| Tensile Bond | HKHA/MTS (00/02) Part D Cl. 2.1.15 |
| Solids Content | BS 5270 |
| VOC | USEPA Method 24<br>CDPH Standard Method v1.2 |

*Notes*

*1) The results given here are typical laboratory results achieved in house. Determined performance can vary slightly due to variations in equipment, users, substrates, ambient conditions etc.*

*2) These are approximate figures based on application onto smooth concrete with a fine nap roller and take no account of wastage.*

*3) In house tests may be carried out with modifications to the standard.*





## INSTALLATION GUIDE

*(Refer to Method Statement for more details)*

### SUBSTRATE PREPARATION

***OPTIMIX SF80*** can be applied onto all damp or dry hardened cementitious substrates.

### MIXING

***OPTIMIX SF80*** is supplied as a high solids concentrate. It should be diluted with potable water and stirred or shaken before use.

In most instances we recommend two or more coats at a dilution of 1:5. Multiple applications will ensure a more complete treatment.

However careful application at a dilution of 1:3 or less may result in the need for fewer coats and thus save in application time and manpower.

For priming self-levelling screed we recommend the minimum number of coats to achieve a sealed but not impervious substrate. This ensures a good bond while helping to ensure a consistent finish on the surface of the self-levelling.

Refer to the method statement for more details and conduct trials to confirm the desired performance is achieved.

N.B. Shake the bottle before decanting and diluting to ensure that all components are not separated during handling or storage.

### APPLICATION

***OPTIMIX SF80*** can be applied by brush, roller or spray taking care to apply as even a coat as possible. Allow the material to dry completely to the touch before applying subsequent layers if required.

***OPTIMIX SF80*** is normally supplied as a Milky White liquid but a pigmented Blue version is also available on request. This is more visible after application and can help in determining which areas have been treated and to what extent.

### FINISHING AND CURING

Depending on the type and condition of the substrate, the first layer of ***OPTIMIX SF80*** will usually be somewhat absorbed and thus may be invisible or lead to a slightly satin appearance once dry. Subsequent layers will improve the sealing performance and the additional layers may also cause the surface finish to become increasingly glossy.

### LIMITATIONS

***OPTIMIX SF80*** should only be mixed with potable water. It must not be mixed with cement, mortar or combined with any other products.

***OPTIMIX SF80*** is a surface treatment that is designed to be covered by subsequent construction. It has limited resistance to UV and so is not recommended as a finishing coat of any kind.

If too much material is applied at a time, if a surface is too dense to receive the coating or has already had some other treatment, then this can potentially lead to a crazed appearance, debonding or other issues. Trials should be carried out in advance – contact Optimix for small trial samples if required.

### HEALTH AND SAFETY

***OPTIMIX SF80*** is non-toxic and non-flammable but it can cause irritations to persons with sensitive skin. Avoid 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.



## STORAGE

Store in closed containers, in a dry place and protect from direct sunlight. Do not store at a storage temperature below 5°C. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.

## ALTERNATIVE PRODUCTS

- ***EVA*** Emulsion
- ***PROCRETE***
- ***PE*** Polymer Emulsion




**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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