



Unimix SF Filler

Product Description

Unimix SF is a 100% solids levelling compound, trowel applied, single component, super fine cementitious - acrylic mortar for interior and exterior applications. Unimix SF has distinctive non-sagging properties, excellent adhesion to concrete or plaster. Although Unimix SF has very high strength, it's very easy to apply using a trowel and easy to sand to achieve ultra-smooth surface with zero shrinkage.

Features and benefits

- Ease of workability by trowel.
- Gives ultra-smooth surface using medium grit sanding paper.
- Can be used on Interior or exterior surfaces.
- Superior adhesion to most substrates and compatible with Acrylics and Epoxies.
- Excellent filling properties with zero shrinkage.
- Can give up to 1 cm layer thickness without cracks.

Typical use

- Concrete Block Repair
- Brick Repair
- Fair face Repair
- Plaster Repair
- Forming plaster like traditional finish.
- Repairing leveling variation problems & for general repair of masonry surfaces.

Substrate

Plaster, concrete, block work, cement board.

Product Data

Packaging size	15 kg plastic bags
Form	Powder
Colors	White & Cement Grey. Other earth tone colors can be requested for a minimum quantity.
Solid by volume	98 ± 2%
Density	1.50 g/cm ³ in powder form, 1.65 g/cm ³ as a slurry.



Application data

The product can be applied by

Spatula:	Recommended
Trowel:	Recommended
Spray:	Can be used with special airless machines.

Cleaning of painting tools

Immediate cleaning with water is necessary.

Film Thickness per coat

Dry Film Thickness	Up to 1000 micron
Theoretical spreading rate	30 m²/ 15 KG pack

Thinner (solvent to mix with)

Water

Dilution (Mix Ratio)

Unimix SF is provided in powder form, for manual mixing, pour 1 part of pure water in a clean empty container then add 2 parts of Unimix SF (The ratio of 1:2 or 1:3 depending on the desired viscosity). *In case power mixing used the above fractions may differ.*

Conditions during application

Do not apply if the temperature is below 10°C and not more than 40°C. For ambient air temperature > 30°C continuous humidification (spraying water mist) is required before and during application.

Drying and curing time	25 °C
Surface (touch) dry	2 h
Dry to over coat, minimum	2 h
Dried/cured for proper sanding	24 h

Directions for use

Surface preparation

- Ensure that surface is thoroughly cleaned and free from grease, oil, dirt, salt and other containment.
- Clean the surface with water.
- Can be applied directly into the substrate without the need of primer/sealer.



Recommended Paint System

Number of coats:

As needed and depending on the status of surface, the thickness of layer to not exceed 1cm. Unimix SF is compatible with all Acrylic and Epoxy systems.

Remarks

Application method depends on the substrate to be repaired:

Block (Brick) work: Apply 2-3 thick coats of Unimix SF (1 cm thickness per coat) directly on the block using a spatula. Allow for the first coat to dry before applying the subsequent coat. Smooth while wet to achieve the desired look. After full dry, sand with light grit sand paper to achieve smooth surface.

Fair face concrete: Grind the sharp edges with a proper mechanical tool. Fill the gaps and pin holes with Unimix SF till you achieve the desired level. Sand with light grit sand paper to achieve the desired look.

Plaster: Apply 1-2 coats of Unimix SF (1mm average) on a clean, efflorescence free plaster. After drying, sand with proper sand paper to achieve a smooth surface.

Previously painted areas: Sand with medium grit sanding paper and then apply a thin coat of Unimix SF. Sand after fully dry to achieve smooth surface.

Storage

- Store in cool, dry place in a well-sealed container away from moist air for 6 months.
- Keep away from heat, ignition sources and from children.

Certificates

Determination of Compressive Strength - BS 196-1 - 6.52 N/mm² after 28 days

Determination of Water Absorption - ASTM D570 - 0.10%

Determination of Pull of Strength - BS EN ISO 4624 - 2.11 MPa after 28 days

Determination of Sag Resistance - ASTM D4400 - No sag.

Determination of Bleeding - BS EN 445 - 0

Determination of Volume Change - BS EN 445 - 0

Exact test reports for above certificates is available upon request.

Caution

- Clean mixing container before use. Do not use dirty tools.
- Do not exceed dilution ratios.
- Keep out of the reach of children

Health and safety

Possible Hazards: It causes irritation in case of skin contact & eye contact, flush immediately with plenty of water for at least 10 minutes and seek medical advice in case it happened.