



Rapid setting mortar for the rapid patching of concrete.

**Description**

REPFLOW FS is a blend of Portland cement, specially graded fillers and additives which impart controlled expansion in the plastic and hardened state whilst minimizing water demand.

REPFLOW FS designed to provide a fluid micro-concrete with good handling characteristics, excellent thermal compatibility with concrete and good water repellent properties.

**Uses**

- Areas that require a wheeled traffic and quick return to service, like airport runways and highway.
- For Emergency concrete repairs.
- Suitable for internal and external use.

**Characteristics / Advantages**

- Factory controlled pre-blended dry mix which requires only addition of water.
- Excellent workability and easy to apply.
- Dual expansion system compensates for shrinkage in both the plastic and hardened states.
- High early and final strength.
- Low permeability

**Typical Properties**

Technical information corresponds to the data, which were obtained at 20 °C (±2 °C) temperature and 50+5% relative humidity.

Color	Grey
Appearance	Powder

Compressive strength: ASTM C109/109M-11	Age (Days)	
	4 hours	≥ 30 MPa
	1 day	≥ 45 MPa
	7 days	≥ 60 MPa
	28 days	≥ 70 MPa

Flexural strength: ASTM C348	Age (days)	
	7	≥ 8.0 MPa
	28	≥ 9.0 MPa

Setting Time	40 min - initial set
	50 min - final set
Fresh wet density	2250 kg/m <sup>3</sup> - depending on consistency used
Yield	~ 13.3 liters per 25kg bag

**Application Instructions**

**Surface preparation**

Concrete should be sound and clear from dust, loose material, curing compounds, oils, etc. any de-laminated, and deteriorated concrete should be removed by suitable means.

Any rust, scale, concrete, and other loose material on the steel reinforcement should be removed using abrasive blast cleaning or other suitable means to reach the bright condition.



**MICSHIELD™**



**REPFLOW FS**

### Mixing

Pour into a suitable container 5.0 liters of clean water. Add 25 kg of **REPFLOW FS** to the water gradually and mix using a low speed mixing drill fitted with the suitable mixing paddle. Continue mixing for 3-5 minutes until achieving a homogenous mix.

### Application

**REPFLOW FS** can be placed in thicknesses from 10mm up to 100mm in a single pour.

Surface finishes can be obtained with trowel, wood float, roller or by brush depending on the required surface texture.

### Cleaning

Tools should be cleaned immediately with clean water. Hardened material should be removed mechanically.

### Packaging

**REPFLOW FS** is available in 25 kg bags.

**This product is environmentally friendly.**

### Storage

**REP FS** has a shelf life of 12 months when stored in its original unopened packing in dry conditions. Shelf life may reduce if the recommended storage conditions changed.

### Safety Instructions

Like any cementitious product, **REPFLOW FS** contains hydraulic cement and may cause irritation to skin or eyes. For further information Refer to the Material Safety Data Sheet.

### Disclaimer

Manaseer Industrial Complex has the right to amend its datasheets anytime. Please make sure to have the latest published datasheet version.

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