

# MasterFlow<sup>®</sup> 410

Low exotherm, high strength, flowable epoxy resin grout

## DESCRIPTION

**Masterflow 410** is a solvent-free low exotherm, filler extended grout, based on modified epoxy resin and is designed for use as a precision, heavy duty chocking grout for engineering applications. It is supplied as a three component system consisting of epoxy resin, combined with inert fillers and the hardener, to produce a high viscosity flowable liquid grout suitable for voids of 50-150mm.

## RECOMMENDED USES

- Machinery with high dynamic loads and vibration.
- Backing of steel liners of ore crushing machinery in mines and quarries.
- In corrosive environments where chemicals, oils and solvents make cementitious grouts unsuitable.
- Production line equipment that must resume operations with minimum downtime.
- Machinery base plates, crane rails, anchor bolts, hold down bolts and heavy equipment where tensile strength greater than cementitious systems can provide are required.

## FEATURES AND BENEFITS

- **Resistance to vibration and impact** – Particularly applicable where cycles of compression/ tension make cementitious grouts unsuitable
- **Minimum shutdown** – Low exotherm allows for thick single pours especially for a shutdown.
- **Excellent chemical resistance** – Maximum protection against attack from mineral acids, oils, fats, fuels, and strong alkali and salt solutions and lubricating and hydraulic oils
- **High bond strength** – Tenacious adhesion to prepared surfaces and requires no priming.
- **Supplied in pre-measured kits** – Eliminates the need for complicated on-site measuring and ensured product performance

## PROPERTIES

Mixed resin and hardener only	
Compressive Strength @ 25°C (ASTM C579)	85 MPa @ 1 days 90 MPa @ 3 days 100 MPa @ 7 days
Flexural strength @ 25°C (ASTM C 580 part 7)	25 MPa @ 7 days
Tensile Strength @ 25°C (BS 6319 Part 7)	11 MPa @ 7 days
Pot life @ 25°C @ 40°C	50 minutes 25 minutes
Bond strength	>2. MPa (concrete failure)
Setting time	2 hours @ 25°C

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

	Part A	Part B	Part C	Mixed
<b>Supply Form</b>	Paste	Liquid	Powder	Paste
<b>Colour</b>	Grey	Amber	sandy	Grey
<b>Mix Ratio</b>	2.5:0.83:16.67 pbw			
<b>Density (Mixed)</b>	2.3-2.4kg/L			
<b>Application Temperature</b>	10°C - 40°C			
<b>Service Temperature</b>	10°C - 40°C			

## APPLICATION

For information about application, please obtain a copy of the BASF "Application Guide for Masterflow Epoxy Grouts" from your local representative.

## ESTIMATING DATA

**Masterflow 410** is available in a three-component kit of 20 kg which yields (when mixed) 8.7 litres.

## PACKAGING

Two-component system available in 20 kg kit comprising Part A (2.5 kg) + Part B (0.83 kg) + Part C (16.67 kg).



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## CURING

No damp curing or special curing compounds are required. Cure time will vary depending on quantity mixed and placed and ambient temperature. Initial set at 23°C will be in 4-6 hours. **Masterflow 410** will be fully cured with maximum physical strength and chemical resistance at 7 days at 23°C. Do not install equipment before full cure has been attained or creep may occur.

Note: Curing rates and strength gain are retarded at lower temperatures - curing will not occur below 5°C.

## SHELF LIFE

**Masterflow 410** has a shelf life of 12 months if stored unopened in original containers at moderate temperatures.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

MasterFlow 410/01/0313

### STATEMENT OF RESPONSIBILITY (Disclaimer)

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BASF India Limited  
Construction Chemicals Division  
Plot No.37, Chandivali Farm Road, Chandivali, Andheri(East)  
Mumbai – 400072 India  
Tel: +91 22 28580200, Fax: +91 22 28478381  
e-mail: [construction-india@basf.com](mailto:construction-india@basf.com) [www.master-builders-solutions.basf.in](http://www.master-builders-solutions.basf.in)

