



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## Masterflow 101 Data Sheet

### Specification notes

Product: **Masterflow 101**

Supplier:

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# MASTERFLOW<sup>®</sup> 101

(replaces Febfast PG)

## High Early Strength, Fast Set, Pouring Grade, Flowable Epoxy Bedding Compound And Grout

### Description of Product

MASTERFLOW<sup>®</sup> 101 is a three component pouring grade flowable epoxy bedding compound for use in inaccessible locations where conventional mortars are of little use.

MASTERFLOW<sup>®</sup> 101 is durable, non shrink, high strength and resistant to chemical attack. The non shrink properties and high early strengths of MASTERFLOW<sup>®</sup> 101 make it ideal for machinery bedding, providing a high load bearing bed at an early stage. It is particularly suitable for situations where dynamic loading prohibits the use of unmodified cementitious grouts.

MASTERFLOW<sup>®</sup> 101 complies with Dtp clause 2601. Specification for Highway Works - Bedding Mortars.

MASTERFLOW<sup>®</sup> 101 conforms to the specifications of ASTM C881: Type 1, grade 2, class B & C.

### Fields of Application

- Fast set high early strength filling of bolt holes and around securing bolts.
- Bedding machinery for earlier use.
- Crane rails, light railtracks.
- Bedding of bridge bearing plates.
- Jointing pipes.

### Features and Benefits

- High early strength reduces down time.
- Pourable & flowable consistency.
- Non shrink during cure.
- Resistant to chemical attack therefore suitable for harsh environments.
- Strong adhesion to concrete & steel.
- Very high flexural and tensile strength.
- Excellent impact resistance able to withstand dynamic loading

### Technical Data/Typical Properties

Colour	Grey
Compressive strength (BS 6319 Pt.2)	@ 20°C >70N/mm <sup>2</sup> @ 24 hours
Flexural strength (BS 6319 Pt.3)	40N/mm <sup>2</sup>
Tensile strength (BS 6319 Pt.7)	12N/mm <sup>2</sup>
Dept of Transport Clause 2601 Test Data:	
Elastic Stability	Strain 0.7%
Volume change	Negligible
Water Absorption	0.19%
Flow	Satisfactory
Service temperature	-20°C to +60°C
Final cure	5-7 hour dependant on ambient temperature
Density	2000 Kg m <sup>3</sup>
Pot life	@ 10°C - 90 mins @ 25°C - 25 mins

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Chemical resistance	<p>The resistance of MASTERFLOW® 101 to most common corrosive chemicals is excellent for most aqueous systems:</p> <ul style="list-style-type: none"> <li>- Sewage and urine</li> <li>- Fresh water</li> <li>- Sea Water</li> <li>- Dilute and concentrated alkalis</li> <li>- Some dilute acids</li> <li>- Mineral, vegetable and animal oils and fats</li> <li>- Ammonia</li> </ul>
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For other details on chemical resistance contact your Degussa Construction Chemicals UK Technical Services Department.

### Application Procedure

#### Preparation of Substrate

The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate. The surface must be free of oil, dust, paint, curing compounds, etc. Particular attention should be paid to bolt holes to ensure that these are water-free. Use oil free compressed air to blow out bolt holes and pockets as necessary.

Base plates, bolts, etc. must be clean and free of oil, grease and paint etc. Set and align equipment if shims are to be removed after the grout has set then lightly grease them for easy removal.

Ensure formwork is secure and watertight to prevent movement and leaking during the placing and curing of the grout. The area should be free of excessive vibration. Shut down adjacent machinery until the grout has hardened

#### Mixing

Premix base and reactor components for a minimum of 3 minutes. Transfer all of the mixture to a suitable container and slowly mix in the aggregate. Mix until a lump free homogeneous consistency is achieved.

### Application

Apply by means of pouring from a lipped container. A head of pressure should be maintained in order to persuade the material to flow and preclude the occurrence of voids in the mortar. Any application must allow for the displacement of air.

### Cleaning

Tools must be cleaned immediately after use with FEB CLEANING SOLVENT NO. 2 or other suitable solvents. Cured material can only be removed mechanically.

### Coverage

A 20Kg pack of MASTERFLOW® will yield approximately 10 Litres of grout.

### Packaging

MASTERFLOW® 101 is supplied in 20 Kg units.

### Storage

Store away from direct sunlight at ambient temperatures and in dry conditions.

### Shelf Life

Minimum 1 year if stored in accordance to manufacturer's instructions in unopened containers.

### Watchpoints

At low temperatures (between 5°C and 10°C) the flow characteristics of MASTERFLOW® 101 will be reduced and installation times increased.

To improve flow, up to 25% of the inert filler can be removed per pack. This will also facilitate installation in gap widths 5 - 10mm. Contact Degussa Construction Chemicals UK for further advice if required.

MASTERFLOW® 101 Degussa Construction Chemicals UK Version 3

**Health and Safety**

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

**Solvent Based Products**

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

**Powder Products**

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

**Resin Products**

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

**Spillage**

Chemical products can cause damage; clean spillage immediately.

**Disclaimer:**

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