

MASTERFLOW®

400

High strength, free flowing epoxy grout

Description

MASTERFLOW 400 is a solvent free epoxy resin grout formulated to withstand static and dynamic loads in a wide variety of applications.

MASTERFLOW 400 is suitable for an application thickness range of 10-80mm. The product is three component and easily mixed on site, to a pourable consistency.

Typical applications

- Crane and transporter rails.
- New and old machine base plates.
- Structural filling of holes and cavities in concrete.
- Industrial equipment and machinery subject to static or dynamic forces.
- Equipment where chemical and acid spillage occurs.

Advantages

- No priming required.
- Excellent flow characteristics.
- Long pot-life.
- High tensile, flexural and compressive strength.
- Excellent adhesion to steel and concrete.
- Rapid installation and strength gain.
- High resistance to dynamic loads and chemical attack.

- Non-shrink and tolerant of damp surfaces.

Packaging / yield

MASTERFLOW 400 is supplied in 15kg, which yields 7.5 litres.

Typical properties*

* Properties listed are only for guidance and are not a guarantee of performance.

Pot life:	at 25°C	70 min
	at 40°C	40 min
Compressive strength (ASTM C579-91):	7 days	104 N/mm ²
Flexural strength (BS 6319 Part 3 1983):	7 days	27.5 N/mm ²
Tensile strength (BS 6319 Part 7):	7 days	15 N/mm ²
Density:		2000 kg/m ³
Cure:	at 25°C	7 Days
	at 40°C	3 Days
Co-efficient of thermal expansion (ASTM C531-95):		8 x 10 ⁻⁵ /°C
Secant modulus of elasticity (ASTM C580-93):	28 days	9300 N/m ²

Placing:

Place immediately after mixing, into the prepared area in such a manner that it has the shortest distance to flow. For long pours a suitable head of pressure may be required. Ensure the area to be grouted is **not** completely sealed, and any displaced air can be expelled. Pour continuously from one side only.

Allow the grout to set prior to removal of formwork (normally after 6 hours). Where placement exceeds depths of 80mm, application should be carried out in layers. The second layer to be applied after 6 hours.

Equipment care

Clean all equipment promptly with CLEANING SOLVENT NO. 2. Any excess cured material will have to be mechanically removed.

Storage

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is up to one year when stored in unopened containers as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Degussa's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to skin and eyes immediately. If accidentally ingested, seek medical attention.

Reseal containers after use. For specific storage and disposal instructions refer to the Material Safety Data Sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Degussa representative.

Degussa reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.

REQUEST AND REFER TO RECOMMENDED
INSTALLATION PROCEDURES FOR **MASTERFLOW**
EPOXY GROUTS PRIOR TO USE

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