

ECONOMICAL CONSTRUCTION GROUT

Cementitious general purpose Class A construction grout

DESCRIPTION

ECONOMICAL CONSTRUCTION GROUT is a ready-to-use natural aggregate, general purpose grout which undergoes controlled expansion in the plastic state (formerly known as Class A). **ECONOMICAL CONSTRUCTION GROUT** may be placed in dry (damp) packed, plastic or fluid consistency and is generally used in applications requiring a grout thickness between 25mm and 100mm.

RECOMMENDED FOR

All general purpose grouting operations:

- non-critical column and equipment bases
- an in-fill grout for cavity block walls
- in caulking of joints and pipes
- between and under pre-cast panels and other joints where total load-bearing is not required.

FEATURES AND BENEFITS

- **ready to use, premixed grout requires only the addition of mixing water on site**
- **low water/cement ratio reduces drying shrinkage and increases durability**
- **may be damp packed without slumping**
- **complete void filling resulting from controlled fluid-phase expansion**
- **non staining grout, similar in appearance to plain concrete**
- **economical, relatively low in-place cost due to its ease of use and flowable properties**
- **no added chlorides**

WATER DEMAND

Actual amount of water will depend on the desired consistency for the job and temperature (both ambient and grout). For any given consistency more water will be required at high temperatures and less at low temperatures. As a guide 20kg of grout mixed at 20°C requires the following amount of water to achieve the consistency indicated:

Consistency	Litres per 20kg bag
Dry (damp) packed	2.1
Plastic	3.0
Flowable	3.6

DO NOT USE WATER IN AN AMOUNT OR AT A TEMPERATURE THAT WILL CAUSE THE MIXED GROUT TO BLEED EXCESSIVELY OR SEGREGATE.

PERFORMANCE DATA

The strength of the grout is dependent on the amount of mixing water, temperature (ambient, grout, substrate), curing and age of the hardened grout. Typical compressive strength of **ECONOMICAL CONSTRUCTION GROUT** at 20°C is:

Compressive Strength (MPa)

Age	Consistency Plastic
1 day	16
3 days	34
7 days	40
28 days	48

(Tested in accordance with AS1478.2 Appendix A using 50mm cubes, moist cured and restrained during setting).

In applications where a higher strength grout is required, refer to **MASTERFLOW 830**, **MASTERFLOW 870** or **MASTERFLOW 880**.

NOTE: The data shown is based on controlled laboratory tests. Reasonable variations from the results can be expected in practice.

APPLICATION

Preparation

The foundations should be clean, well roughened and pre-saturated with water. Eliminate external sources of vibration until the grout hardens.

Mixing

For large quantities use a paddle type mortar mixer. For smaller quantities mix in a 20-25 litre pail using a heavy duty electric drill (e.g. Festo) fitted with a helical paddle (Jiffy). When using a mortar mixer add approximately 70% of the required mixing water before adding any dry grout. Add only as much water as necessary to provide required consistency. Too much water may adversely affect expansion characteristics and strength development. Mix until grout appears homogeneous, about 2 minutes. When using a helical mixer add all the required water before adding any dry grout. Mix for 1-2 minutes. Do not use grout from damaged bags.

Placing

Place grout within 30 minutes of mixing. Place grout by hand and ram (damp-pack) or rod into place (plastic). **ECONOMICAL CONSTRUCTION GROUT** may be placed at a flowable consistency by pouring from one side only into a formed header box. Avoid entrapping air. To facilitate grout movement, gently strap or rod the grout. A minimum thickness of 25mm is recommended.

In applications where **ECONOMICAL CONSTRUCTION GROUT** is to be 'dry-packed', refer to BASF Construction Chemicals Application Guide "Dry packing Masterflow Cementitious Grouts" available from your local BASF Construction Chemicals Technical Sales Representative.



The Chemical Company

ECONOMICAL CONSTRUCTION GROUT

CURING

Prevent grout from drying out. Protect from sun, wind and draughts. Preferably moist cure all exposed shoulders for 24 hours then apply a suitable BASF curing compound such as **MASTERKURE 404** or **MASTERKURE 402**. If unable to moist cure then apply a suitable BASF curing compound such as **MASTERKURE 404** or **MASTERKURE 402** to all exposed shoulders immediately after final finishing.

ESTIMATING DATA

A 20kg bag of **ECONOMICAL CONSTRUCTION GROUT** mixed with 3 litres of water yields approximately 10.5 litres (0.0105m³).

PACKAGING

ECONOMICAL CONSTRUCTION GROUT is packaged in 20kg bags.

SHELF LIFE

ECONOMICAL CONSTRUCTION GROUT has a shelf life of approximately 18 months when stored in a cool dry environment. The expiry date is printed on the bag.

PRECAUTIONS

The cementitious material in **ECONOMICAL CONSTRUCTION GROUT** may cause irritation, avoid contact with eyes and prolonged contact with skin. In case of contact with eyes, immediately flush with water for at least 15 minutes. Call a physician. Wash skin thoroughly after handling product. Keep product out of reach of children.

ECONOMICAL CONSTRUCTION GROUT is not recommended for installations:

- where precision (non-shrink) grouts are required.
- where a grout containing metallic aggregate for additional fatigue restraint is required.
- where a bleed free fluid grout is essential.

Consult your local BASF Technical Sales Representative on other Masterflow grouts for these applications.

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 Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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