MasterFlow® 810

A non-shrink, cementitious grout for use in general civil engineering works

Section 1 – General Instructions

1.1 Background

Installation information contained in this procedure are as specific as possible, but cannot cover all variations in field conditions. If anticipated conditions do not permit following these guidelines, do not hesitate to call your BASF Representative.

IMPORTANT: READ THIS FIRST
BASF does not warrant the performance of this product unless the instructions of this document and other related BASF documents are adhered to in all respects.

1.2 High Temperature Working

The following recommendation is suggested as guideline for good working practices for temperatures above 35°C:

1.2.1 Store and place any unmixed materials in a cool and dry environment (preferably temperature controlled), avoiding exposure to direct sunlight.

1.2.2 If possible, try to avoid any application during the hottest times of the day. Arrange temporary shading and cover as necessary.

1.2.3 Make sufficient materials, labour and power supply available to ensure continuous application process.

1.2.4 Maintain all equipment that will be in use at cool environment to ensure that surfaces in direct contact with materials are in cool condition.

1.3 Equipment

The following list of equipment and necessities are recommended to be adopted as a minimum requirement.

Protective Clothing:
- Protective overalls,
- Industrial gloves
- Goggles and Facemask, Safety glasses, Dust masks

Surface Preparation Equipment:
- Equipment to mechanically abrading the surface to remove laitance
- Industrial vacuum

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Mixing and Installation Equipment:

- High intensity, temporary lighting with extension cord
- Variable speed drill mixer with jiffy type blade or equivalent
- Paddle type mortar mixer for larger quantity

Section 2 – Application

2.1 Pre-Installation

The following checklist is recommended prior to starting the installation:

- Review in detail the current, published **MasterFlow 810** Technical Datasheet.
- Inventory all materials ordered from BASF (Malaysia) Sdn Bhd and find:

MasterFlow 810 **25.00 kg pack**

- Determine surface preparation requirements (i.e. sandblast, shot blast, scarify, etc.).
- Check that all necessary equipment is on the job site and that adequate electrical power is available for all power tools.
- Brief all installation personnel on application procedures and SAFETY requirements.
- Review Material Safety Data Sheets (MSDS) and have available at job site.

2.2 Surface Preparation

Correct and thorough preparation is critical for optimum performance.

2.2.1 The substrate must be sound and free of dirt, oil, grease, laitance, curing compounds, sealers, form release agents, paints and other contaminants.

2.2.2 Roughen surface with a small chipping hammer to ensure good bonding.

2.2.3 Saturate cleaned foundation area for a minimum of 2 to 3 hours before grouting. All free water ponding should be blown out of the void just before pouring.

2.3 Mixing

Actual water demand will depend on consistency required and the temperatures (both ambient and grout). Do not use too much water as it will cause grout to bleed or segregate.

2.3.1 **MasterFlow 810** can be mixed to a Flow able or Trowel able consistency. The quantity required for a 25kg bag is approximately as shown:

Flow able 4.0 - 4.5 litre

Trowel able 3.1 - 3.4 litre

2.3.2 Water addition may be affected by temperature conditions on site. Trials are recommended to determine the correct water requirement.

2.3.3 For flow able consistency use a hand drill and paddle for small works up to two bags at a time and specialist grout mixer for larger volumes.

2.3.4 Pour water into a pail and add in **MasterFlow 810** (while stirring continuously with a low speed drill stirrer), mix for approximately 3 to 5 minutes or until a homogeneous, lump free compound is obtained.

2.4 Placing

2.4.1 For best results, **MasterFlow 810** should be used within 30 minutes of the completion of mixing.

2.4.2 Avoid trapping air and water by placing grout from one side only.

2.4.3 Use a suitable head box to ensure grout flows continuously.

2.4.4 Ensure entire space to be grouted is filled by bringing grout level to above underside of machine base plate and remain at this level throughout grout placement.

2.5 Curing

2.5.1 Like all cementitious mortars and concrete, **Masterflow 810** must be protected against rapid drying due to high temperature and/or strong winds.

2.5.2 The use of wet burlaps, polythene sheets, curing compound or water ponding is highly recommended.

2.6 Cleaning

Clean the tools and equipments immediately after use with water before **MasterFlow 810** harden, otherwise mechanical cleaning will be required.

Section 3 – Responsibility and Variable

The technical information and application advice given in this BASF (Malaysia) Sdn Bhd publication is a general proposal' for the application of **MasterFlow 810** based on present state of our best scientific and practical knowledge. As the information is of a general nature no assumption can be made as to a product 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.

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