

MasterFlow 872

Dual shrinkage compensated, High flowability, precision grout

DESCRIPTION

MasterFlow® 872 is a non-shrink, natural aggregate precision grout with excellent high flowability and ultimate strengths. **MasterFlow® 872** is normally placed at a flowable consistency to completely fill voids between 10mm and 100mm. It is specially formulated to provide extended working time even at high ambient temperatures when mixed and placed at any recommended consistency.

RECOMMENDED USES

- All precision, non-shrink grouting applications with clearances of 10mm or more including:
- Critical equipment baseplates, soleplates and columns
- Nuclear Power Plant equipment
- Paper and pulp mill equipment
- Heavy rotating machinery
- Generators and turbines

FEATURES AND BENEFITS

- Compliance with China Standard GB/T 50448-2008, Type II
- High ultimate strength - ensures permanence of the installation under static and moderate repetitive loads
- Improved flowability - easy to grout intricate spaces ensuring maximum bearing area
- Extended working time-facilitates grouting of large or difficult placements in a single pour, or using a bag-by bag technique
- Dense, non-shrink grout-hardens free of bleeding, and settlement ensuring tight contact with all grouted surfaces
- Simple mixing – easy to use

TYPICAL PERFORMANCE DATA

The strength and flowability of the grout are dependent upon the amount of mixing water, ambient temperature, curing and age of the hardened grout. Typical data of strength (N/mm²) and flowability (mm) are as follows. Compressive Strength (N/mm²) when placed at a 'flowable' consistency.

Age	Temperature		
	10°C	20°C	30°C
1 day	≥ 10	≥ 25	≥ 40
3 day	≥ 40	≥ 50	≥ 60
28 day	≥ 75	≥ 75	≥ 75

Flowability (mm)	Initial	≥ 340
	30 min.	≥ 310

Expansion (%)	0-3hr	0.1- 3.5
	2 - 24hr	0.02 – 0.5

Flexural Strength (N/mm²) when placed at 'flowable' consistency.

Age	Temperature		
	10°C	20°C	30°C
1 day	>2	>4	>6
3 day	>5	>6	>9
28 day	>10	>10	>10

Volume change when placed at 'flowable' consistency.

Age	Temperature 20°C
1 day	Positive
3 day	Positive
28 day	Positive

The performance data is typical and based upon controlled laboratory conditions at 20°C. Actual performance on the job site may vary from these values based on actual site conditions. Field and laboratory tests should be conducted on the basis of the desired placing consistency rather than strictly on indicated water demand. If the project requires strength tests be made on site do not use cylinder moulds



The Chemical Company

MasterFlow 872

Water Demand

Masterflow® 872 is ready to use and requires only the addition of water.

Water Demand - Litres per 25kg bag	
Temperature 20°C	Consistency
	Flowable
	3.4-3.6

ESTIMATING DATA

Masterflow® 872 mixed in accordance with BASF Construction Chemicals recommended procedures to the required consistency, will provide the following:

Approximate Yield, Litres per 25kg bag	
Temperature 20°C	Consistency
	Flowable
	12.4

APPLICATION

Thicknesses greater than 100mm are possible with the addition of aggregate. For more application directions on preparation, forming, mixing, placing and curing of **MasterFlow® 872** as Cementitious

Precision Grouts” available from your local BASF representative. Well as precautions to take in hot and cold weather refer to the “Application Guide for MasterFlow® 872”.

PACKAGING

MasterFlow® 872 is packaged in 25kg bags.

SHELF LIFE

MasterFlow® 872 has a shelf life of approximately 6 months when stored in a cool dry environment.

CLEANING

Clean tools and equipment with water, before the adhering material hardens.

PRECAUTIONS

Health

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

ID#Masterflow 872 CN v1.1 0113

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF Construction Chemicals 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 Construction Chemicals, are responsible for carrying out procedures appropriate to a specific application.

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