



MasterFlow – Non-Shrink Precision Grouts

High Performance Solutions for Safer
Equipment Foundations



MasterFlow – The Grout You Can Rely On

When it comes to foundations for heavy machinery, there is no room for compromise. Industrial projects need solutions that have been proven by the test of time.

Proven Performance Grouting Solutions

Master Builders Solutions developed the first metallic grout formulations in 1932. Global lines of our “No-doubt” epoxy and ultra versatile cementitious performance grouts were started in 1954.

> 80
years

Since then, we have continuously finetuned our products to meet the local market demands and fulfill customers’ project specifications:

- Global technical support from grout experts
- Adaptations of these superior formulations in all regions
- Certifications and test reports
- Training and support for specialist applicators and specifiers
- Flagship benchmark products available in all regions



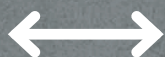
Setting the Benchmark

The MasterFlow product range delivers the vital link between the equipment and the ground it shall be fixed to.

MasterFlow precision grouts are non-shrink, high-strength, ultra-durable and impact resistant, specifically engineered to meet requirements of precision or heavy equipment foundations.



Product benefits at a glance:



Non-shrink



Dynamic load
transfer



High strength



High flow



Good-natured
properties



High chemical
resistance



Temperature
resistant



High
durability



Certified

While not all characteristics can be achieved in one product alone, the MasterFlow product line offers a spectrum of epoxy, cementitious quartz and/or metallic aggregate based precision grouts to be used for all special purpose applications.

» MasterFlow 648

Epoxy Chemically Resistant

“No-Doubt” Precision Grout

10–150 mm

Application thickness

Plastic/Flowable

Workability range

Focus on:



Chemical resistance



Durability



High strength

Features

- Epoxy based, 3 component system
- Compressive strength* 1 day > 70 MPa, ultimate > 90 MPa
- Excellent adhesion to concrete and steel
- Water impermeable
- Hardens free of segregation and settlement
- Working time: 45 to 90 minutes depending on temperature
- Variable fill ratio of resin/aggregate mix possible to improve flow

» MasterFlow 928

Cementitious Ultraflow

10–100 mm **

Application thickness

Flowable/Fluid

Workability range

Focus on:



High flow



Load transfer



Non-shrink

Features

- Cement based with mineral aggregate
- Compressive strength* 1 day > 30 MPa, ultimate > 60 MPa
- Very good adhesion to concrete and steel
- No bleeding, no segregation
- Non-shrink properties when mixed, placed and cured properly
- Excellent flowability and pourability
- High workability range by adjustable mixing ratio
- Long pot life

** Use MasterFlow 980 for application thickness higher than 100mm.

» MasterFlow 4800

Cementitious Metallic Reinforced

10–150 mm

Application thickness

Flowable/Fluid

Workability range

Focus on:



High strength



Temperature Tolerance



Durability

Features

- Contains state of the art cement and admixtures technology
- Good flow properties without segregation
- Contains controlled performance graded metallic aggregates
- Water impermeable and freeze/thaw resistant acc. to EN 12390-9
- No bleeding, no segregation
- Non-shrink properties when mixed, placed and cured properly
- Can be used at temperatures down to 2°C
- Compressive strength* 1 day > 60 MPa, ultimate > 100 MPa
- For hand or machine field installation

* Obtained by using flowable consistency

High

Impact resistance

Heat Tolerant

Temperature resistance

Ultra High

Compressive strength, early and ultimate at 23 °C, flowable

High

Chemical resistance

Advantages

- High durability even in aggressive chemical environments
- Allows very high compressive loading
- Shorter downtimes and quicker start of the machinery process
- Perfect load transfer under dynamic loading
- Resistant against weathering

Benefits

- Safe foundation for various types of machinery
- Long lasting solution in a chemically aggressive environment
- Less maintenance during the service life of the machine
- Can be used for foundation repair as well



Medium

Impact resistance

High Heat Resistant

Temperature resistance

High

Compressive strength, early and ultimate at 23 °C, flowable

Limited

Chemical resistance

Advantages

- Universal precision grout – also excellent for structural anchoring
- Compatible with structural concrete for perfect load transfer between the machine and the foundation
- Easy to place even in very complex grouting details
- Allows enough time to place the grout properly even under hot temperatures

Benefits

- Economic solution for safe machinery fixing
- Less maintenance during the service life of the machine
- Easy to handle and pump



High

Impact resistance

High Heat Resistant

Temperature resistance

Ultra High

Compressive strength, early and ultimate at 23 °C, flowable

Medium

Chemical resistance

Advantages

- High toughness and high resistance under dynamic loading
- Shorter downtimes for start-ups and fast turn-arounds
- High flow for full compaction even for very complex grouting details
- Perfect load transfer even under dynamic and repetitive loading
- Resistance against weathering
- Longer application season due to cold weather applicability

Benefits

- Long lasting solution even in outdoor applications
- Less maintenance during the service life of the machine
- More flexibility for fixing machinery in cold seasons or during nights
- Easy to handle and pump
- Safe foundations for huge machinery investment
- Sustainable product contribution with LEED points (recycled metal aggregate)





Master Builders Solutions

The Master Builders Solutions brand brings all of our expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry. The know-how and experience of a global community of construction experts form the core of Master Builders Solutions.

We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction.

The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, solutions for underground construction, waterproofing solutions, sealants, concrete repair & protection solutions, performance grouts, performance flooring solutions and solutions for on- and offshore wind energy.

Our comprehensive portfolio

- Concrete admixtures
- Cement additives
- Chemical solutions for underground construction
- Waterproofing solutions
- Sealants
- Concrete repair and protection solutions
- Performance grouts
- Wind turbine grouts
- Performance flooring solutions





Master Builders Solutions for the Construction Industry

MasterAir

Complete solutions for air entrained concrete

MasterBrace

Solutions for concrete strengthening

MasterCast

Solutions for the manufactured concrete product industry

MasterCem

Solutions for cement manufacture

MasterEase

Low viscosity for high performance concrete

MasterEmaco

Solutions for concrete repair

MasterFinish

Solutions for formwork treatment and surface improvement

MasterFlow

Solutions for precision grouting

MasterFiber

Comprehensive solutions for fiber reinforced concrete

MasterGlenium

Solutions for high performance concrete

MasterInject

Solutions for concrete injection

MasterKure

Solutions for concrete curing

MasterLife

Solutions for enhanced durability

MasterMatrix

Advanced rheology control for concrete

MasterPel

Solutions for hydrophobization, anti-efflorescence and surface protection

MasterPolyheed

Solutions for mid-range concrete

MasterPozzolith

Solutions for water-reduced concrete

MasterProtect

Solutions for concrete protection

MasterRheobuild

Solutions for high strength concrete

MasterRoc

Solutions for underground construction

MasterSeal

Solutions for waterproofing and sealing

MasterSet

Solutions for set control

MasterSphere

Solutions for guaranteed freeze-thaw resistance

MasterSuna

Solutions for sand and gravel in concrete

MasterSure

Solutions for extraordinary workability retention

MasterTop

Solutions for industrial and commercial floors

Master X-Seed

Advanced accelerator solutions for concrete

Ucrete

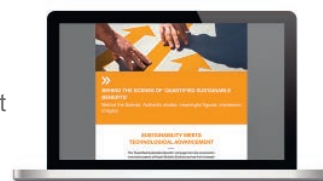
Flooring solutions for harsh environments



QUANTIFIED SUSTAINABLE BENEFITS ADVANCED CHEMISTRY BY MASTER BUILDERS SOLUTIONS

Let the numbers do the talking: We have portrayed some of our most eco-efficient product solutions for concrete and precast production, construction, civil engineering, and flooring.

sustainability.master-builders-solutions.com



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