



Performance Grouting

Solutions that
Challenge Movement





Grouting Solutions

Zero shrinkage in precision and industrial grouting materials is the key to effectively handling tensile, shear and compressive and dynamic loads...preventing low rebar, anchor bolt and dowel bar pull-out strengths in concrete...and ensuring effective bearing-load distribution when grouting base plates and machinery bases. The right grouting materials provide lasting security, stability and alignment.

Technologies

- Cementitious grouts with metallic or mineral aggregate. Specifically engineered to be highly fluid, non-bleed, non-shrink, with extended working times.
- Epoxy grouts designed for improved chemical resistance and high dynamic load capability.

Applications

VOID AND DUCT GROUTING

- Segmental Bridges
- Cellular Transmission Towers
- Precast Post Tensioned Structural Members

CHEMICAL ANCHORING

- Foundations
- Slabs
- Structural Components (precast or cast in place)

PRECISION MACHINERY AND ELEMENT ALIGNMENT

- Industrial Facilities
- Transportation Infrastructure
- Commercial Buildings

Cementitious Grouts

MasterFlow® 100 Multi-Purpose Grout

A non-catalyzed, multi-purpose construction grout containing mineral aggregate.

MasterFlow 110AN Anchoring Grout

Designed for a variety of grouting and anchoring applications where high initial strengths are useful, including the anchoring of railings, bolts, and posts as well as the grouting of machinery and equipment bases.

MasterFlow 555 Mineral-Aggregate Grout

A semi-fluid, non-shrink mineral-aggregate grout. It is ideally suited for grouting machines or plates requiring optimum load bearing support.

MasterFlow 713 High-Precision Grout

A cement-based grout with specially graded mineral aggregates. It can be used at any consistency from fluid to damp pack for applications that require precision support and early form stripping or shoulder trimming.

MasterFlow 816 Cement-Based Grout

A cement-based aggregate free grout. It produces a fluid, pumpable, non-shrink, non-bleeding, high-strength product with extended working time. It provides corrosion protection for highly stressed steel cables, anchorages, and rods.

MasterFlow 885 Metallic-Aggregate Grout

A cement-based metallic aggregate grout with extended working time. It is ideally suited for grouting machines or plates requiring optimum toughness and precision loadbearing support, including machine bases subject to thermal movement.

MasterFlow 928 Extended Working Time Grout

A hydraulic cement-based mineral aggregate non-shrink grout with extended working time. It is ideally suited for grouting machines or plates requiring precision load-bearing support. It can be placed from fluid to damp pack over a temperature range of 45 to 90° F (7 to 32° C).

MasterFlow 1205P Pumpable Grout

A cement-based pumpable grout with specially graded aggregate. It produces a pumpable, non-bleeding, high-strength fluid product with an extended working time. The specially graded spherical aggregate mitigates chloride migration while still allowing the product to be easily pumped over long distances through small openings. MasterFlow 1205 meets all the compressive strength and volume change requirements ASTM C 1107 (CRD C621) at a fluid consistency.

MasterFlow 1206 High-Strength Grout

A cement based, pumpable non-bleeding high-strength grout with extended working time, especially in vertical duct placements or configurations with a steep vertical rise without settlement shrinkage. It is bleed resistant for horizontal, inclined, and vertical tendon configurations. It meets all compressive strength and vertical height change requirements of ASTM C 1107 (CRD C 621) at a modified flow and complies with the PTI Specification for Grouting of Post Tensioned Structures with vertical rises of 6–100 ft (1.8–30 m) or slightly more.



New Technology

MasterFlow 4316 High-Performance Grout

A unique grout that provides high early and ultimate compressive strengths over a wide variety of application and service temperatures. The superior performance of MasterFlow 4316 lies in its novel hydraulic cement binder with applied nanotechnology and premium mineral aggregates which, when mixed with water, produces a flowable and pumpable grout that can be installed in temperatures ranging from 35 to 100° F (2 to 38° C).

Epoxy Grouts

MasterFlow 647 Machinery Grout

A modified epoxy resin grout, specially formulated for grouting cracks in structures and machinery foundations. Suitable for pressure injection of grouted baseplates beneath compressors, cement mills, and other vibrating and rotating machinery.

MasterFlow 648 High-Flow Grout

A high-strength, high-flow epoxy grout providing superior physical properties in high-temperature applications. It offers high early and 7-day strengths for applications requiring fast turnaround, good chemical and crack resistance, and outstanding flow characteristics and versatility of fill rates.

MasterFlow 649 High-Performance

A high-performance epoxy grouting material for support of heavy equipment. It ensures the proper transmission of static and dynamic loads to the equipment foundation.

MasterFlow 668 Chock Grout

A three-component modified epoxy-resin-based grout. It is used where high-performance properties are required in less-accessible spaces subject to thermal shock and high vibrations. It can be placed from 1/2–3" (12.5–76 mm) thick on a base-grout pour, directly to the concrete or steel to steel.

MasterFlow 678 Deep-Pour Grout

A low exotherm non-shrink deep-pour epoxy grout. Can be placed in depths of up to 18" without extension or lifts.

Master Builders Solutions from BASF

The Master Builders Solutions brand brings all of BASF's 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 BASF 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 BASF 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, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair and protection solutions, performance grouts, performance flooring solutions.

Master Builders Solutions products from BASF for the Construction Industry:

MasterAir®

Solutions for air-entrained concrete

MasterBrace®

Solutions for concrete strengthening

MasterCast®

Solutions for manufactured concrete product industry

MasterCem®

Solutions for cement manufacture

MasterEmaco®

Solutions for concrete repair

MasterFinish®

Solutions for formwork treatment

MasterFlow®

Solutions for precision grouting

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MasterGlenium®

Solutions for high-performance concrete

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MasterKure®

Solutions for concrete curing

MasterLife®

Solutions for enhanced durability

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Advanced rheology control solutions for self-consolidating concrete

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MasterPolyheed®

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