



MasterFlow 9370

High-Strength Grout for
Onshore Wind Solutions



Reliable Solutions for Global Challenges

The aim to move around through greater consumption of renewable energy is leading to the rapid development of wind energy throughout the world. The increase in size of the turbines, together with life-cycle considerations, through the

use of optimised materials of the latest generation, is a critical factor for success. As a trusted partner we help our clients make wind energy even more profitable.

Challenge

Our Solution



Foundations for onshore wind turbines

MasterFlow 9370

Specially created for use in steel tower applications with class C80/95 strength. This solution combines excellent performance with reduced costs, guaranteeing the achievement of profitability in the generation of wind energy.



Concrete bases for wind turbines

Consumption and application

MasterFlow 9370 can be applied in above plinth foundations, with an approximate consumption of 0.8 t of grout, and in shallow trench systems, with a consumption of approximately 1–3 t of grout, and deep trench systems, with a consumption of 4–12 t of grout.



Steel towers

A comprehensive solution for your project

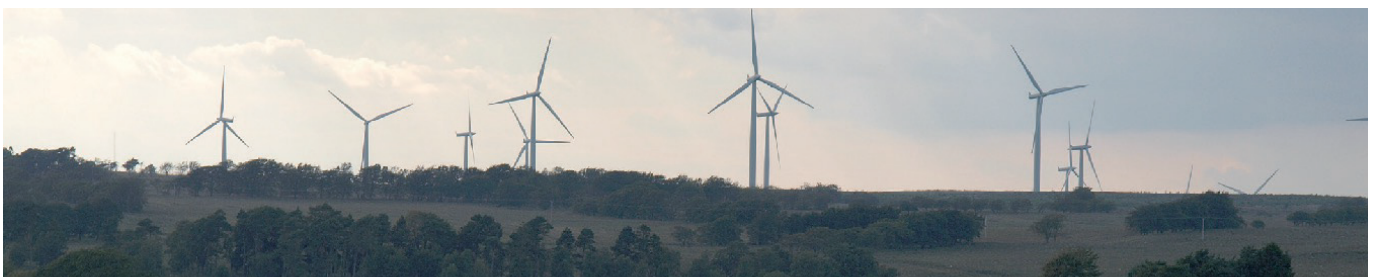
The MasterFlow 9370 is certified for use in steel towers. It is a robust and reliable product with a wide range of uses adapted to specific requirements.



Certified product

Solutions for all components

Master Builders Solutions is your reliable and experienced partner supporting your wind energy project. From the concrete foundation to waterproofing and sealing your system. Our products are certified and meet the parameters of regulatory bodies.





MasterFlow 9370

High-strength grout for steel towers

MasterFlow 9370 is a new, revolutionary grout with mechanical properties to meet the requirements of wind turbine installations and overcome the typical problems associated with onshore grouting.

This material has been specially formulated for applications in which shrinkage-compensating grout is required, which, when mixed with water, is uniform, smooth, pumpable and features high initial and final strength properties.

- Classification with C80/95 compressive strength
- High initial strength, in other words, values of 50 Mpa @ 24 hours at 20 °C

- Excellent strength development
- Free from segregation or shrinkage in order to guarantee consistent final physical performance and avoid blockages in the pumping system

Wind turbines are special

Their safe, lasting installation depends to a large extent on the design and correct interaction between all components. MasterFlow 9370 has been specially developed for foundations which require design strengths in the range of 50 MPa to 90 MPa. The material has long-term durability, while guaranteeing a faster, safer and more profitable installation of the wind farm.

Benefits at a glance

Excellent durability

High resistance to dynamic loads.



Rapid installation

The high initial strength allows progress with the installation of sections in the fastest possible way.



Continuous quality generating value

Its excellent smooth properties reduce installation times and costs, in addition to reducing pressure and wear on the pumping system.



Wide range of applications

It can be used on all steel towers, independently from foundations with above plinth, shallow trench or deep trench design.



Excellent resistance to compression

Compression resistance class C80/95



Warranted/certified material

Standardized and safe design process



Partnering with wind to make energy happen

As the leading provider of chemical components for wind energy installations, we are deeply rooted within the wind energy community – helping engineers worldwide in rolling out reliable wind energy on a large scale.



Worldwide



Partner



Energy



Proven and Certified Quality

Support in risk management

Wind turbines are special – their safe and durable installation largely depends on the correct design and interaction of all components – and require high performance MasterFlow ExagROUTS to guarantee long term and maintenance-free operation of the wind farm.

Master Builders Solutions helps the wind industry to be more successful by better understanding the needs of our partners and reducing the risks involved in the construction and exploration of modern wind farms.

For us, managing risks means amongst others:

- Production of MasterFlow ExagROUTS to highest quality standards
- On-site consultancy
- Detailed installation methods as part of the Quality Assurance
- MasterFlow ExagROUTS installed by Master Builders Solutions Licensed Contractors
- Independent documentation of the material properties

Product validation

MasterFlow ExagROUTS have been developed by the Master Builders Solutions experts for application in on- and offshore wind farms, and especially where the turbines and foundations are exposed to very high dynamic loads. Durability and longevity of the total installation go therefore hand in hand with risk management. Minimizing risks and optimizing the electricity generation are at the heart of any investor in wind energy, whether the wind park is operated in on- or offshore conditions.

Master Builders Solutions has therefore instructed industry experts, certification bodies and independent testing houses to validate the performance of the materials and confirm their “fit for purpose”.

With its global presence, Master Builders Solutions offers this high level risk management for all your projects – on- and offshore – independent of the country or region where the wind farm is being built.

Certifications



Contact our expert!

Eugenio Manzanares, P +34 91 313-8334
Email: eugenio.manzanares@mbcc-group.com



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



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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.

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Master Builders Solutions España S.L.U

Carretera de l'Hospitalet 147-149 CityPark
08940 Cornellà del Llobregat, Barcelona, Spain
P +34 93 61 94 600

mbs-cc@mbcc-group.com

www.master-builders-solutions.com

Master Builders Solutions UK Ltd

19 Broad Ground Road, Lakeside,
Redditch Worcestershire, B98 8YP, United Kingdom
P +44 1527 512 255, F +44 1527 503 576

reditchcom@mbcc-group.com

www.master-builders-solutions.com

Master Builders Solutions Belgium nv

Nijverheidsweg 89
3945 Ham, Belgium
P +31 11 340 431

mbs-cc-be@mbcc-group.com

www.master-builders-solutions.com

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