

MB-Seed STE

Unique Strength-Enhancing Concrete Admixture

Master Builders Solutions

As Master Builders Solutions, we are a leading global producer of responsible solutions for the construction industry, focussed on delivering our vision: **Inspiring people to build better.** We provide value-added technology and market-leading R&D capabilities to improve the performance of construction materials and to enable the reduction of CO₂ emissions in the production of concrete. The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, and solutions for underground construction.

We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide, leveraging 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.

Founded in 1909, Master Builders Solutions operates 35 production sites globally, supporting you in mastering your building challenges of today and tomorrow – for a decarbonised future.

MB-Seed STE -Strength Redefined

MB-Seed STE is a newly engineered strength-enhancing admixture to improve both the early and late strength development of concrete while reducing CO₂ emissions. The innovative solution is based on our unique C-S-H seeding technology and improves the hydration process by suspending synthetically produced crystalline calcium silicate hydrate nanoparticles in the mix. Thanks to the specially developed mechanism of action, the cement content can be reduced and replaced with limestone filler or supplementary cementitious materials (SCMs) for more sustainable concrete production. MB-Seed STE provides unmatched early and late strength development, setting an entirely new standard in efficiency and sustainable construction.



Reference project in Augusta (Italy): static restoration of the breakwater at the Port of Augusta

MB-Seed STE - Unique Strength-Enhancing Concrete Admixture

Powerful Performance – Boost Early and Late Strength

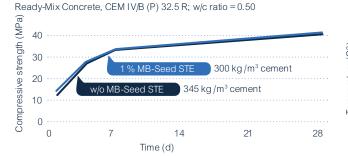
MB-Seed STE can be used with all types of EN 197 cements and is fully compatible with common admixtures. The ready-touse liquid admixture is added to the concrete during the mixing process. The additional use of high-range water reducers such as MasterCO₂re[™], MB-Ease or MB-Glen is beneficial to enhance the strength development of your concrete mix.

MB-Seed STE allows mix optimization without affecting strength development

MCP Concrete (Hollow Core Slabs)



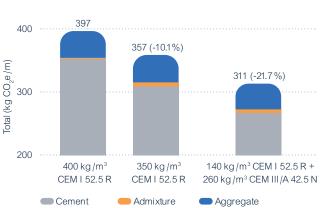
MB-Seed STE enables the use of limestone filler to replace cement without affecting strength development



MB-Seed STE increases both the early and late strength of concrete



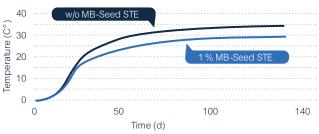
MB-Seed STE reduces CO, emissions



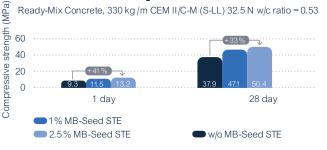
MCP Concrete (Hollow Core Slabs)

MB-Seed STE lowers hydration temperatures

Ready-Mix Concrete, CEM IV/B (P) 32.5 R; w/c ratio = 0.50

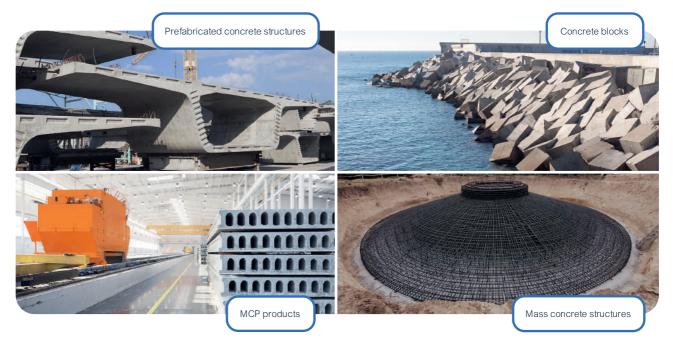


MB-Seed STE boosts the strength of green cements with low CO₂ emissions



Durable and Sustaiable Solution for Mass Concrete Structures

Master Builders Solutions provides efficient and sustainable solutions that enable the production of CO_2 -optimized concretes with high standards in terms of workability, consistency maintenance and robustness. MB-Seed STE maintains compressive strength development and helps to reduce the cementitious content of the concrete mix. It is suitable for large, mass concrete structures or precast elements where it is essential for the heat of hydration to be low during concrete hardening.



Your benefits with MB-Seed STE:

- Improved strength development, both early (1 day) and late (28 days)
- Cement can be replaced with higher levels of limestone filler or SCMs
- Promotes sustainable construction
- Reduced hydration temperatures especially for large, mass structures due to lower cement content
- Improved concrete strength consistency even when produced with variable raw materials
- Increased strength safety factor
- Permits earlier stripping and reuse of formwork to improve production efficiency



Contact us!

Contact your local application technician for advice on mix design and dosage of MB-Seed STE to improve your strength development.



Master Builders Solutions for the Construction Industry

MB-Air

Complete solutions for air entrained concrete

MB-Cast

Solutions for the manufactured concrete product industry

MB-Ease

Low viscosity for high performance concrete

MB-Fin

Solutions for formwork treatment and surface improvement

MB-Fib

Comprehensive solutions for fiber reinforced concrete

MB-Glen Solutions for high performance concrete

MB-Life Solutions for enhanced durability

MB-Mat

Advanced rheology control for concrete

MB-Pel

Solutions for hydrophobization, anti-efflorescence and surface protection

MB-Poly Solutions for mid-range concrete

MB-Pozz Solutions for water-reduced

concrete

MB-Build Solutions for high strength

MB-UGC

Solutions for underground construction and surface improvement

MB-Set Solutions for set control

MB-Sur

Solutions for extraordinary workability retention

MB-Seed

Advanced accelerator solutions for concrete

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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