



MasterSuna[®] RCT 323

Returned concrete recycling
made easy



Master Builders Solutions

The Master Builders Solutions brand brings all of its 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, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair & protection solutions, performance grouts, performance flooring solutions and solutions for on- and offshore wind energy.

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





Returned Concrete Recycling Made Easy

Around 2-3% of all ready-mix concrete is returned to batch plants, and almost half of that ends up as waste, which is either landfilled or stockpiled. Despite improvements in production and batch accuracy, a significant percentage of trucks are still returning to batch plants with a portion of the load on board. MasterSuna RCT 323 returned concrete admixture ensures that 100% of the ready-mix load is recycled and utilised in other construction applications.



Product Benefits

Returned fresh concrete has always represented a logistical, financial and environmental challenge for ready-mixed concrete suppliers. Thanks to the MasterSuna RCT 323 admixture, the traditional challenges of recycling concrete are now transformed into an array of benefits for concrete producers.

Convert waste into a resalable material

MasterSuna RCT 323 admixture allows ready-mix concrete producers to convert returned fresh concrete into a material that's suitable for use in road base and construction backfill – quickly, efficiently, and without the need for any additional specialist equipment.

Reduced labour and recycling machinery

MasterSuna RCT 323 not only eliminates the need for additional equipment to process returned concrete, but it also treats the returned concrete in the agitator drum in 75 seconds, making it extremely cost-effective in terms of equipment time and labour costs.

Zero emission solution

Returned concrete currently costs concrete plants tens of thousands of dollars each year in disposal fees and transport. MasterSuna RCT 323 reduces costs, labour and emissions for dealing with returned concrete.

Faster return to service for ready mix trucks

Dealing with returned fresh concrete is both time-consuming & expensive problem. Drum cleaning can take hours if not dealt with correctly, meaning less time on the road for drivers. MasterSuna RCT 323 removes all returned concrete from the drum in less than 5 minutes. Problem solved





Features & Applications

Product Features

- One-component admixture
- Low dosage for ease of use
- Fixed dosage to treat a variety of returned concrete mixtures
- Fast acting – gels fresh concrete, providing rapid stiffening in 2-5 minutes
- Cost-effective solution to address returned fresh concrete
- Eliminates the need for onsite concrete crushing
- Improves on site safety
- Long term storage in piles for later use
- Creates an environmentally sustainable solution for returned concrete.

Product Applications

MasterSuna RCT 323 allows ready-mixed concrete producers to convert returned fresh concrete into a usable material suitable for use in a range of applications including:

- Road base
- Construction backfill (without the need for any additional specialist equipment)
- Slurry mixes,
- Flowable fill
- Roller compacted concrete
- Partial replacement for coarse aggregates in concrete (With additional testing and qualification, material treated with MasterSuna RCT 323 admixture can be used as a partial replacement for coarse aggregates in concrete, depending on the local material specifications.)





More Information

Find out more by scanning the QR Codes below:



**How To Use
MasterSuna RCT 323**



**MasterSuna RCT 323
Technical Data Sheet**



**MasterSuna RCT 323 and
The Circular Economy**



**How To Use
MasterSuna RCT 323**



**MasterSuna RCT 323
Explainer Video**



**Watch MasterSuna RCT 323
Activate in 46 Seconds**





As Easy As 1-2-3

STEP 1

Determine concrete volume and check that the mix has a slump of between 80 and 130mm* (water can be added to the returned concrete if required), and then add one bag of MasterSuna RCT 323 for every cubic metre of returned concrete or part thereof.

* Higher slump concretes can also be treated with a slightly higher dose rate.



STEP 2

Mix at maximum speed until you hear the material gel* (generally 60-90 seconds) and discharge in small piles or a windrow.

* It will sound like the barrel is only mixing aggregate rather than ready-mixed concrete.



STEP 3

Same Day:

Back-blade the discharged material with a loader to achieve a height of around 150-200mm across the piles or windrow.

Next Day:

Scrape up the back-bladed material with a loader to break it up and stockpile it ready for use.





Master Builders Solutions for the Construction Industry

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For detailed information on the product and application refer to the Technical Data Sheet and Application Guide available in our website: www.master-builders-solutions.com/en-au

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