

Re-Con Zero Evo US

Two-Component Powder for Recovering Returned Concrete from Mixer Trucks

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Re-Con Zero Evo US is a two-component powder product used to recover all “returned concrete” with zero impact on the environment and zero investment required for reclaiming plants.

WHERE TO USE

For recovering all types of concrete returned to batch facilities at the end of each day or when sites are decommissioned

TECHNICAL CHARACTERISTICS

Re-Con Zero Evo US is a two-component powder product made from special polymers and inorganic composites according to a formula developed in the MAPEI research laboratories. The formula allows concrete returned to mixing plants to be completely and quickly recovered directly from mixer trucks.

Re-Con Zero Evo US transforms returned concrete into an aggregate that, once cured, may be used as follows:

- To partially replace natural aggregates for normal concrete;
- To completely replace natural aggregates for lean concrete, substrates, mixed cements, etc.

Treating concrete with *Re-Con Zero Evo US* does not generate waste or byproducts, such as rinsing water or fines, because the process allows the cementitious conglomerate to be completely recovered. After treatment of concrete with *Re-Con Zero Evo US*, the inside of the mixing drum is extremely clean, and considerably less rinsing water is required compared with the amount normally used for cleaning mixing drums at the end of the day.

HOW TO USE

There are two different methods for using *Re-Con Zero Evo US* according to specific site conditions and the raw materials used (type of cement, aggregates, etc.). The correct procedure should be chosen after carrying out preliminary tests. Returned concrete should preferably have a slump not exceeding 8".

Method 1

1. Reverse the concrete toward the mouth of the drum and add *Re-Con Zero Evo US* Part A at a rate of one 0.837-lb. bag per cubic yard of concrete to be treated.
Note: Make sure the bags drop onto the concrete and not onto the sides of the drum. Mix at high speed (15 rpm) for 2 to 3 minutes.
2. If necessary, one 1.102-lb. bag of *Re-Con Zero Booster* per cubic yard of concrete may be added to improve granulation of the conglomerate.
3. Repeat the procedure by adding *Re-Con Zero Evo US* Part B at a rate of one 2.535-lb. bag per cubic yard of concrete to be treated and mix at a high speed for 2 minutes.

Method 2

1. Reverse the concrete toward the mouth of the drum and add *Re-Con Zero Evo US* Part B into the drum at a rate of one 2.535-lb. bag per cubic yard of concrete to be treated.
Note: Make sure the bags drop onto the concrete and not onto the sides of the drum.
2. Mix at high speed (15 rpm) for 3 minutes.
3. Repeat the procedure by adding *Re-Con Zero Evo US* Part A at a rate of one 0.837-lb. bag per cubic yard of concrete to be treated. Mix at high speed (15 rpm) for 2 minutes. Then the direction of rotation must be reversed to promote mixing of the product. The mixing should be further extended for 2 minutes up to final granulation.
4. If necessary, a 1.102-lb. bag of *Re-Con Zero Booster* per cubic yard of concrete may be added to improve granulation of the conglomerate.

Re-Con Zero Evo US Part A and *Re-Con Zero Evo US* Part B must never be mixed together; always add them to the concrete in the mixing drum in sequence.

Once the concrete has been granulated, stop mixing. After treating the concrete, discharge the aggregate from the mixing drum onto the ground and spread it over as wide an area as possible without forming heaps or piles.

RECOMMENDATIONS

The bags used for the packaging of *Re-Con Zero Evo US* Part A, *Re-Con Zero Evo US* Part B and *Re-Con Zero Booster* are water-soluble and must be protected from moisture.

Re-Con Zero Evo US Part A and *Re-Con Zero Evo US* Part B must never be mixed together; always add them to the concrete in the mixing drum in sequence.

The treated material must be moved and handled with a mechanical loading shovel (or other suitable means) within a certain period of time (optimum handling time is approximately 3 to 35 hours). The optimum handling time should be determined based on air temperature and humidity and direct exposure to the sunlight. Contact MAPEI's Technical Services for assistance in setting up the proper procedures and timing

based on the local climate, surrounding conditions and plant organization. MAPEI's Technical Services is available for field demonstrations.

DOSAGE RATES

Re-Con Zero Evo US Part A: One 0.837-lb. bag per cubic yard of concrete to be treated

Re-Con Zero Evo US Part B: One 2.535-lb. bag per cubic yard of concrete to be treated

Re-Con Zero Booster: One 1.102-lb. bag per cubic yard of concrete to be treated

The recommended dosage may be optimized by carrying out specific tests on site and with the assistance of MAPEI technicians.

PACKAGING

Re-Con Zero Evo US is available in plastic pails, each one containing doses for 7 cubic yards of returned concrete to treat:

- Seven 0.837-lb. packs of *Re-Con Zero Evo US Part A* (blue bag).
- Seven 2.535-lb. packs of *Re-Con Zero Evo US Part B* (clear bag).

Re-Con Zero Booster is available in boxes containing thirty 1.102-lb. water-soluble bags.

STORAGE

Re-Con Zero Evo US can be stored for 2 years in a dry area in its original, unopened packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND USE

Re-Con Zero Evo US Part A and *Re-Con Zero Booster* are not considered hazardous according to current regulations regarding the classification of mixtures.

Re-Con Zero Evo US Part B is corrosive and may cause burns. We recommend using protective gloves and goggles and to take the usual precautions for handling chemical products. If it comes into contact with the eyes or skin, wash well with plenty of clean water and seek medical attention.

Caution: If *Re-Con Zero Evo US Part A* or *Re-Con Zero Booster* is accidentally spilled or comes into contact with moisture or humidity, it will cause surfaces to become extremely slippery.

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

Technical Data

	Part A/Booster	Part B
Physical state	Powder	Powder
Color	White	White
Bulk density (lb/ft ³)	49.9	68.7
Chlorides (%)	Part A/Booster does not contain calcium chloride or other chloride-based components.	Part B does not contain calcium chloride or other chloride-based components.
Primary function	Water absorber/viscosifier	Setting accelerator

ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

CONTACT INFORMATION

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Edition Date: October 17, 2023 MK 3007950 (23-1626)

For the most current product data and BEST-BACKEDSM warranty information,
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