



RE-CON LINE VALUE

RECLAIM

Saves costs through cost-effective handling of returned concrete, creating a valuable material that can replace virgin aggregates and be used for further cleaning of concrete trucks.

MAPEI product:

Re-Con Zero Evo US



CLEAN

Saves costs by reducing the expenses of handling truck-washing slurry waste and water treatment.

MAPEI method:

Re-Con dry washing





RECYCLE

Saves costs by reducing cement consumption and the need for high-quality, virgin, raw materials.

MAPEI product:

Re-Con AGG 100



REDUCE CO₂

Lower GWP per m³ of concrete using aggregates produced by Re-Con Zero Evo US and Re-Con dry washing.

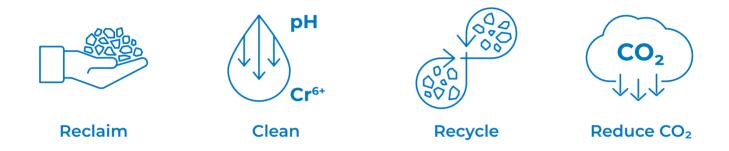




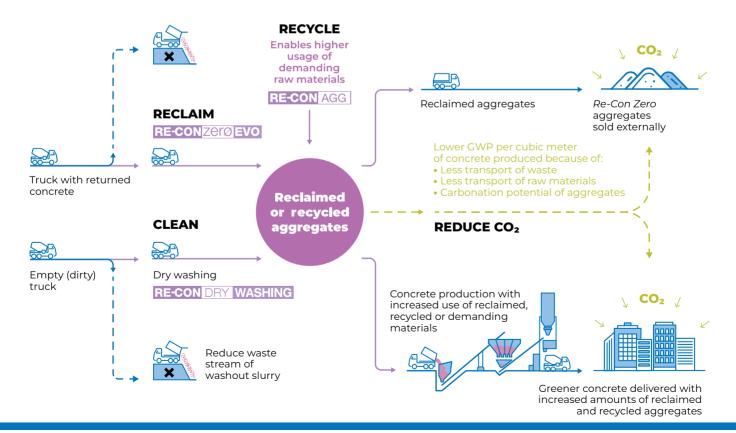


Moving toward the future

MAPEI's Re-Con line helps concrete producers to move toward a more circular and effective production model by offering cost-effective and sustainable solutions. Under the four key concepts of Reclaim, Clean, Recycle and Reduce CO_2 , substantial savings in waste-handling costs can be made by transforming returned concrete and truck-washing slurry into valuable material. The Re-Con line also offers products that enhance circularity of material flows by reducing the need for high-cost, virgin, raw materials... mitigating the problems of using recycled concrete, manufactured sand or clay-contaminated sand in new concrete.



Sustainable concrete production from linear to circular material flows





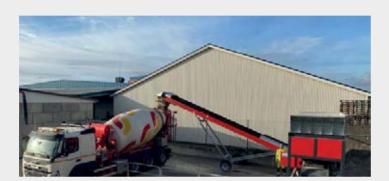
RE-CON DRY WASHING

Re-Con Dry Washing

Reducing truck-washing slurry and water-treatment pollution

This dry method is an innovative way to reduce truck-washing slurry by up to 70% and does not require a reclaiming system with filter presses or other costly and complex process equipment.

Reduces hazardous waste and lowers water consumption



Pictured: A simple feed-hopper and conveyor solution to feed dry washing aggregates into a dirty truck



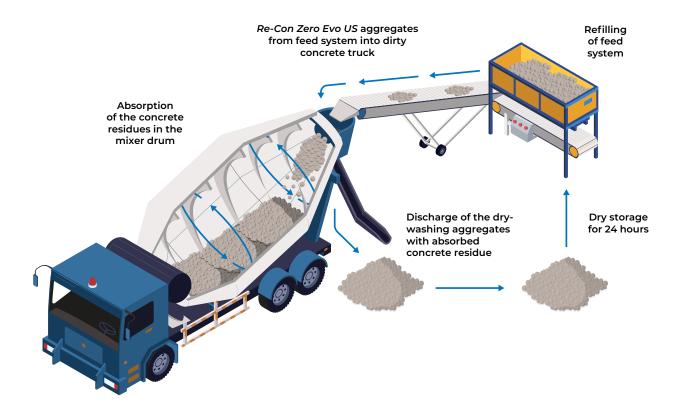
Pictured: The end result of the *Re-Con* dry-washing process, producing recycleable aggregates with increased carbonation potential by absorption and hardening of the cementitious waste from concrete truck washing.

- · Greatly reduces slurry waste with high pH and potential high content of Cr VI
- Increases the potential for higher ratios of recycled process water in concrete



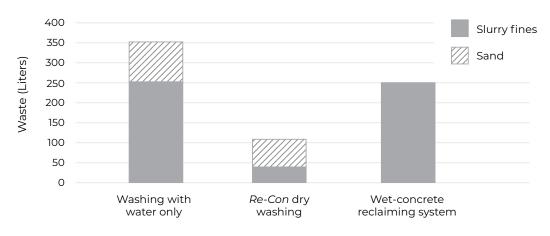
Removes 70% of the problems related to washout of trucks, without the use of wet reclaimer equipment, resulting in lower disposal and transport costs

Method to reduce truck-washing slurry



70% less cementitious waste in every truck washout

Re-Con dry washing utilizes the absorption capability of the Re-Con Zero Evo US aggregates to clean trucks of cementitious waste that is otherwise washed out. Using the Re-Con dry-washing process followed by a light wash with water will greatly reduce the truck washout solids that lead to a high pH and increased pollution risk of heavy metals such as hexavalent chromium. With Re-Con dry washing, the root cause of truck washout pollution is removed by transforming waste into aggregates in a repeatable process.





Re-Con Zero Evo US

Transforms returned concrete into reclaimed aggregates

This 2-component system consists of a superabsorbent polymer and a hardener. It transforms fresh returned concrete into a granular material by chemically binding the free water (Part A) and by stabilizing and accelerating the process (Part B).

Reducing the environmental impact of concrete production





- Transforming waste stream to resource material
- · Increasing material circularity



Pictured at left: Reclaimed aggregates produced without crushing



Re-Con AGG 100

Contributes to higher dosages of recycled aggregates or other demanding raw materials

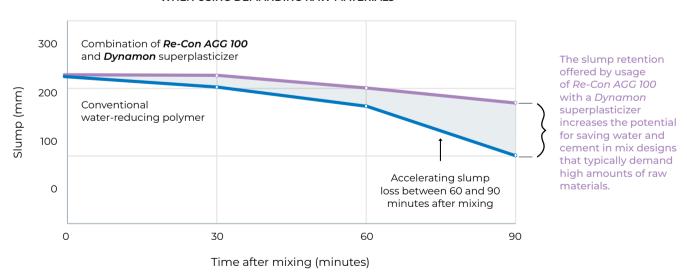
Re-Con AGG 100 has proven to be very effective in combination with superplasticizers in the *Dynamon* line, to retain the workability of concrete when using demanding sand or coarse aggregates without reducing the compressive strength at 24 hours or later. The workability retention effect of Re-Con AGG 100 has been proven in a number of different applications.



- Manufactured sand
- · Clay-bearing sand
- · Recycled concrete aggregates
- Supplementary cementitious materials

Typical slump development over time with and without Re-Con AGG 100

TYPICAL SLUMP DEVELOPMENT OVER TIME WHEN USING DEMANDING RAW MATERIALS



The combination of Re-Con AGG 100 and Dynamon superplasticizer helps concrete producers to use higher amounts of sustainable raw materials... without having to compromise on concrete workability or cost due to increased cement usage.





MAPEI Headquarters of North America

1144 East Newport Center Drive Deerfield Beach, Florida 33442 1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

Technical Services

1-888-365-0614 (U.S. and Puerto Rico) 1-800-361-9309 (Canada)

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Copyright ©2023 by MAPEI Corporation ("MAPEI") and all rights are reserved. All intellectual property rights and other information contained in this document are the exclusive property of MAPEI (or its parent or related companies), unless otherwise noted. No part of this document may be reproduced or transmitted in any form without the prior written consent of MAPEI.

Printed in the USA.

