

Re-Con AGG 100 [NA]

Plasticizing Admixture for Use with Recycled-Aggregate Concrete

NORTH AMERICA [NA]

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Re-Con AGG 100 [NA] is a modified, acrylic, polymer-based plasticizer developed for use in ready-mixed concrete with recycled aggregates as well as with materials that have a high-water demand, such as clay-bearing aggregates and sand with high free mica content. *Re-Con AGG 100* [NA] meets the requirements of ASTM C494, Type B, and AASHTO M194, Type B.

WHERE TO USE

Re-Con AGG 100 [NA] is primarily used in concrete plants to produce concrete with recycled aggregates. Having fine aggregate in the mix can necessitate a higher demand of water than the quantity typically necessary for concrete. Furthermore, some minerals could make a superplasticizing admixture less efficient. Due to its chemical formulation, *Re-Con AGG 100* [NA] can mitigate the negative effects generated from aggregates and can help to enhance the overall characteristics of the mixture, thus improving the performance of superplasticizers and allowing for lower water/cement ratio. *Re-Con AGG 100* [NA] can be used with Type 1L cements to increase bleed water, resulting in increased workability and finishing.

When used in combination with a superplasticizer from the *Dynamon* range, *Re-Con AGG 100* [NA] allows a longer workability retention of the mix.

Re-Con AGG 100 [NA] is supplied in a ready-to-use liquid form. It is most effective when applied in fluid concrete with a superplasticizer.

COMPATIBILITY

Re-Con AGG 100 [NA] is compatible with all types of cement that comply with ASTM C150. *Re-Con AGG 100* [NA] is also compatible with the following MAPEI products when used to make special concrete:

- Superplasticizers from the *Dynamon* line of products
- Strength-enhancing products from the *Mapecube* line of products
- Viscosity-modifying admixtures from the *Mapecrete*® line of viscosity-modifying products
- Set-retarding admixtures from the *Mapetard* line of retarding products
- Curing agents from the *Mapecure*™ line of products that are used to protect concrete from rapid water evaporation
- Fly ash, lime-based fillers, blast furnace slag, silica fume and other pozzolans

The performance characteristics and high flexibility of *Re-Con AGG 100* [NA] make it suitable for concrete production of any type. It may be used for the production of:

- Flowable consistency concrete.
- Self-consolidating concrete.
- Pumped concrete.
- Architectural concrete.

MIXING

Re-Con AGG 100 [NA] performs best by being added directly to the initial 70% to 80% of the mixing water or right after all the other components (e.g., cement, aggregates, mineral additives) have been added. Concrete should be mixed thoroughly before the addition of superplasticizing agents to adjust concrete workability.

DOSAGE RATES

The dosage of *Re-Con AGG 100* [NA] may vary according to the material characteristics of the concrete. Such variations will not, however, affect the concrete characteristics, which will still comply with the requirements and specifications of EN 206. According to the physical and mineralogical characteristics of the concrete, *Re-Con AGG 100* [NA] can be used at variable dosages. The typical dosage is 3 to 30 U.S. oz. per 100 lbs. (200 to 2 000 mL per 100 kg) of cement.

Re-Con AGG 100 [NA] can be used with Portland-limestone (Type 1L) cements to increase bleed water potential. When used in this way, the typical dosage of *Re-Con AGG 100* [NA] is between 0.5 to 1.5 U.S. oz. per 100 lbs. (33.3 to 100 mL per 100 kg) of cement.

PACKAGING

Re-Con AGG 100 [NA] is available by bulk delivery, in 55-U.S.-gal. (208-L) drums and 275-U.S.-gal. (1 041-L) totes.

STORAGE

Re-Con AGG 100 [NA] may be stored at temperatures between 40°F and 95°F (5°C and 35°C) in sealed containers for 1 year. It should be protected from frost. If exposed to direct sunlight, the product may change in color without compromising the product's performance characteristics.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Re-Con AGG 100 [NA] is not considered dangerous according to current regulations regarding the classification of mixtures. It is recommended to wear protective gloves and goggles and to take the usual precautions for handling of chemicals.

Technical Data

Consistency	Liquid
Color	Brown
Density	8.91 lbs. per U.S. gal. (1.07 kg per L)
pH	5.0 +/- 1.0
Water-soluble chloride content	< 0.1
Alkali content (Na ₂ O equivalent)	< 2.0

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (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).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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.**

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