

CLARENA[®] AC1100

Clay mitigating solution for aggregates

Product Description

CLARENA[®]AC1100 is a chemical additive specifically designed and formulated to meet the needs of the construction aggregate producer. Designed to selectively react with clay contaminants in both coarse and fine aggregates, this highly engineered, irreversible chemical reaction can eliminate the negative effect of clays in applications such as concrete, road base and asphalt.

Benefits

The CLARENA[®]AC1100 chemistry unleashes productivity where typical equipment/mechanical processing technology has reached a practical limit. Most mechanical/equipment solutions separate process streams based on size. In the case of fine aggregate, where beneficial fines and clay contamination can be of similar size, equipment/mechanical separation does not distinguish between these materials and can be wasteful. CLARENA[®]AC1100 technology is based on chemically distinguishing between beneficial fines and clay contamination thereby allowing more efficient utilization.

Typical Properties

- Physical State: Liquid
- Color: Colorless to pale yellow
- Specific Gravity: 1.1 – 1.2
- pH: 5 – 8
- Freezing point: 26°F (-3°C)
- Storage temperature: up to 100°F (38°C)
- Shelf life: 12 months

Product Advantages

- Enhanced yield and productivity
- Reduced waste generation and cost of fines management
- Increased efficiency and space utilization
- Extension of reserves and use of currently marginal materials.
- Improves sand handling and flow properties by reducing sand clumping.

Typical Addition Rates

For most clays, addition of 1.1 – 8.8 lbs of chemical to 2,200 lbs of aggregate (0.5 – 4 kg/metric ton) will effectively eliminate the negative effects of clay contamination. These levels can vary due to the type of clay (mineralogy) and the level of contamination.

How to Use

CLARENA®AC1100 is designed to be used as received. Further dilution is not recommended unless exceptional circumstances exist at a given site. Please contact your local GCP representative.

Dosing Equipment

CLARENA®AC1100 should be proportioned through a calibrated dosing system suitable for the dosage and throughput at a given site. Recommended equipment designs are available from your local GCP representative.

Compatibility

Significant material and process variability can exist when producing construction materials such as concrete, road base or asphalt. The compatibility of treated sands should be verified in all end use applications.

Packaging

CLARENA®AC1100 is available in 1,100 kg Intermediate Bulk Containers (IBC) or in bulk tanker trucks. Please contact your local GCP representative if other packaging options are required.

Storage

CLARENA®AC1100 should be stored in a shaded area not exposed to direct sunlight. Should area's storage be exposed to freezing temperatures, provisions should be made for insulating and heating in order to prevent excess viscosity and to aid pumpability.

Health & Safety

All precautions defined on the SDS (Safety Data Sheet) must be followed at all times.

Technical Services

Field Engineers from GCP Applied Technologies are available to assist in laboratory and plant evaluations of CLARENA®AC1100. Please contact your local GCP representative for further assistance.

ca.gcpat.com | North America customer service: 1-877-4AD-MIX (1-877-423-6491)

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

CLARENA, is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies Inc. All rights reserved.

GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140 USA.

In Canada, 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

This document is only current as of the last updated date stated below and is valid only for use in the Canada. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.com. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2020-07-09

ca.gcpat.com/solutions/products/clarena-solutions-materials-management/clarena-ac1100