

# CLARENA<sup>®</sup> CM

Clay-mitigating solution for aggregates

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## Product Description

The CLARENA<sup>®</sup> CM family of products is a new class of materials 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 CM 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 CM technology is based on chemically distinguishing between beneficial fines and clay contamination thereby allowing more efficient utilization.

## Product Advantages

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

## Properties

The CLARENA CM family of products can be customised to meet the needs of an aggregate producer based on specific site factors. Please contact your local representative for more detailed information.

## Appearance: Liquid

- Colour: Colourless to pale yellow
- Specific Gravity: 1.1 – 1.2
- pH: 5 – 8
- Freezing point: -3°C
- Storage temperature: up to 30°C
- Shelf life: 12 months

## Addition Rates

For most clays, addition of 1.1 – 8.8lbs of chemical to 2,200lbs of aggregate (0.5 – 4kg/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 CM 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 CM 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 CM is available in 1,100kg Intermediate Bulk Containers (IBC) or in bulk tanker trucks. Please contact your local GCP representative if other packaging options are required.

## Storage

CLARENA CM should be stored in a shaded area not exposed to direct sunlight. Should storage area 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

Read and understand the product label and Safety Data Sheet (SDS) if handling the product directly. All users should acquaint themselves with this information prior to working with the product and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office.

## Technical Services

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

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GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Australia Pty. Ltd., 14 Colebald Street West, Archerfield, Brisbane, Queensland 4108, Australia

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