

TAVERO[®] VM 6100

Strength Enhancer Grinding Aid for Vertical Roller Mills

Product Description

TAVERO VRM 6100 is a chemical additive used as a cement constituent to improve the manufacture and the properties of cement. TAVERO VRM 6100 allows to optimize cement grinding in Vertical Roller Mills (VRM), to control vibrations and to reduce water addition, enabling the production of cements with reduced pre-hydration and improved performance.

TAVERO VRM 6100 is an aqueous solution of selected raw materials to suit the requirements of the cement manufacture.

Physical Properties

Appearance	Brown liquid
Density (g/l)	1055-1075
pH	10.0-11.5

Recommended Addition Rate

According to GCP experience the addition rate is typically in the range of 500-1000 ml/ton of treated cement. However the optimum addition rate depends on the characteristics of the material and the grinding circuit and is normally assessed through industrial tests. GCP personnel are available for assistance.

Deviation from the optimum cannot guarantee the expected results and could have an impact on the cement characteristics.

Overdosing can lead to unstable mill operations, as well as undesired modifications of cement properties.

Benefits

TAVERO VRM 6100 is a grinding aid for cement, which reduces the tendency of re-agglomeration of the fine particles formed during the comminution process.

TAVERO VRM 6100 permits improvements in the efficiency of the mill and separator and thus increases the production rate with a corresponding reduction in grinding energy consumption.

TAVERO VRM 6100 also permits improvements of the flowability of the finished cement.

TAVERO VRM 6100 enables stable operation of the VRM with reduced amount of water injection onto the grinding bed. Reduced water injection can lead to reduced pre-hydration of the cement, resulting in improved properties such as higher early strength and reduced setting time.

Cements produced with TAVERO VRM 6100 have a lower pack-set tendency and hence can provide advantages during loading and unloading operations. TAVERO VRM 6100 may also improve the particle size distribution and activate the hydration kinetics, thus increasing the strength of the treated cement.

Advantages

- Reduced tendency of re-agglomeration
- Reduced need for water injection for bed stabilization, leading to reduced cement pre-hydration
- Improved flowability
- Lower pack set tendency
- Increased mill output
- Reduced kWh/t

Certification

TAVERO VRM 6100 meets the requirements of EN 197.

Typical Applications

TAVERO VRM 6100 can be used for the grinding of most cements in vertical roller mills.

Main applications are:

- Portland cements
- Portland blended cements

How to Use

TAVERO VRM 6100 should be added onto the feed belt or injected pure or diluted into the mill. For vertical roller mills, injection directly onto the grinding bed is ideal.

For an accurate proportioning of TAVERO VRM 6100 a volumetric metering pump is suitable.

GCP personnel are available for assistance.

Packaging and Storage

TAVERO VRM 6100 is supplied in 205 litre drums, in 1000 litre plastic containers or bulk.

TAVERO VRM 6100 does not require particular precaution for storage. However it should be protected from freezing or excessive hot conditions. For tanks and containers placed outside in cold conditions a heating system or a re-mixing device is recommended. It is also advisable to insulate exposed pipelines.

Shelf life is at least 12 months if stored in sealed manufacturer's containers.

Health and 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.

gcpat.com.au | Australia customer service: 1800 855 525

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.

TAVERO 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 2020 GCP Applied Technologies, Inc. All rights reserved.

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

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

This document is only current as of the last updated date stated below and is valid only for use in Australia. 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.au. 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: 2021-02-05

gcpat.com.au/solutions/products/tavero-grinding-aids/tavero-vm-grinding-aids/tavero-vm-6100-strength-enhancer-grinding-aid