TYTRONIX® cement admixture

A revolutionary new technology for Mortar Cement

Product Description

TYTRONIX®is a proprietary product developed at the research laboratories of GCP. It utilizes a revolutionary new chemistry that results in a dramatic improvement in the performance of low air mortar cements.

Designed to be interground during the cement manufacturing process, TYTRONIX®use allows cement manufacturers to achieve the high flexural bond strength and low air levels consistent with the requirements of the ASTM C 1329-96 *Standard Specification for Mortar Cement*. In addition, TYTRONIX®imparts superior workability to mortar cements, such that, in blind trowel tests performed by professional masons, low air mortars made with TYTRONIX®outranked the standard high air masonry cements. TYTRONIX®is also formulated to provide superior board life and water retention to the mortar.

For cases where manufacturers or masons have special performance needs, the base TytroniX®formula can be modified to provide enhanced benefits. These variants of TYTRONIX®, known as TYTRONIX®SA, TYTRONIX®A and TYTRONIX® AR can be formulated to provide superior water retention, strength or set time control as needed by the customer.

Typical[1] Performance Properties of the Tytron product line are shown below:

PRODUCT	TYTRONIX®	TYTRONIX® SA	TYTRONIX® A	TYTRONIX® AR
Additive Dosage (lb/ton)	3-4	3-4	3-4	3-4
Setting Times (minutes)				
Initial Set (minimum)	300	300	300	350
Initial Set (maximum)	500	500	500	550
Water Retention (%)	80++	80++	80++	80+
Board Life				
Initial Downgrade	60	75	90	90
Final Downgrade	75	105	120	120
Air Entrainment % (max)	8-14	8-14	8-14	8-14
Formulation Advantages	Lowest Cost Water Retention	Strength Water Retention Workability	Water Retention Workability Board Life	False Set Control Water Retention

Notes: 1 Performance shown here is meant to suggest a typical value. Due to GCP's custom formulating capabilities and varying cement raw material characteristics, actual performance could exceed the values listed above.

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.

TYTRONIX 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., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Canada, Inc., 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 United States. 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: 2022-05-06

gcpat.com/solutions/products/gcp-functional-additives/tytronix-cement-admixture