

TYTRON[®] cement admixture

A revolutionary new technology for Masonry Cement

Product Description

TYTRON[®] is a proprietary technology developed at the research laboratories of GCP. It represents a revolutionary new chemistry for use in the production of cement for masonry applications.

Designed to be interground during the cement manufacturing process, TYTRON[®] use allows cement manufacturers to achieve performance consistent with the requirements of ASTM C 91-95c Standard Specification for Masonry Cement. In addition, its use provides important performance benefits such as excellent workability, long board life, water repellency and superior water retention. TYTRON[®] is supplied in a stable solution so that storage and use in a variety of different conditions and climates is never a problem.

For special cases where extra performance is desired by the masonry manufacturer or user, the basic TYTRON[®] formulation can be modified to produce enhanced performance in the areas of workability, board life, water retention and/or strength. These additional benefits can essentially be added through “custom-designing” by GCP technical personnel to produce the TYTRON[®]S, TYTRON[®]A, TYTRON[®]R, TYTRON[®]P or Tytron W variants. Combinations of benefits may also be obtained through the use of such products as TYTRON[®]WA, TYTRON[®]SA, etc. as desired by the customer. Such custom formulations would typically require laboratory work by GCP, utilizing the customer’s raw materials, followed by a plant trial for formula optimization, with the ultimate goal being a product that is uniquely suited for the specific raw materials and performance requirements of the market.

Typical¹ Performance Properties of the Tytron product line are shown below:

PRODUCT	TYTRON [®]	TYTRON [®] S	TYTRON [®] A	TYTRON [®] R	TYTRON [®] P	TYTRON [®] W	TYTRON [®] WA
Additive Dosage (lb/ton)	2.5-4.5	2.5-4.5	3.0-5.0	2.5-4.5	3.0-5.0	3.0-5.0	4.0-6.0
Setting Times (minutes)							
Initial Set	300	300	300	350	300	300	300
Final Set	500	500	500	550	500	550	550
Water Retention (%)	80+	80+	80++	80+	80+	80++	80++
Board Life							
Initial Downgrade	60	75	90	90	75	90	90
Final Downgrade	75	105	120	120	105	120	120
Air Entrainment % (max)	19-21	19-21	19-21	19-21	19-21	19-21	19-21

Formulation	Lowest Cost	Strength	Water Retention	False Set Control	Workability Water	Workability Water	Water Retention
Advantages			Board Life	Board Life	Repellency	Retention Board	Workability Board
						Life	Life

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.

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.

TYTRON 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, Suite 475, 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 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: 2024-06-21

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