

# TYTRON<sup>®</sup> Cement Admixture Data Sheet

A revolutionary new technology for Masonry Cement

## Product Description

TYTRON<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>S, TYTRON<sup>®</sup>A, TYTRON<sup>®</sup>R, TYTRON<sup>®</sup>P or TYTRON<sup>®</sup>W variants. Combinations of benefits may also be obtained through the use of such products as TYTRON<sup>®</sup>WA, TYTRON<sup>®</sup>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.

Typical<sup>1</sup> Performance Properties of the Tytron product line are shown below:

PRODUCT	TYTRON <sup>®</sup>	TYTRON <sup>®</sup> S	TYTRON <sup>®</sup> A	TYTRON <sup>®</sup> R	TYTRON <sup>®</sup> P	TYTRON <sup>®</sup> W	TYTRON <sup>®</sup> 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
<b>Setting Times (minutes)</b>							
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++
<b>Board Life</b>							
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.

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