

# TYTRONIX<sup>®</sup> cement admixture

A revolutionary new technology for Mortar Cement

## Product Description

TYTRONIX<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> imparts superior workability to mortar cements, such that, in blind trowel tests performed by professional masons, low air mortars made with TYTRONIX<sup>®</sup> outranked the standard high air masonry cements. TYTRONIX<sup>®</sup> 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<sup>®</sup> formula can be modified to provide enhanced benefits. These variants of TYTRONIX<sup>®</sup>, known as TYTRONIX<sup>®</sup>SA, TYTRONIX<sup>®</sup>A and TYTRONIX<sup>®</sup>AR can be formulated to provide superior water retention, strength or set time control as needed by the customer.

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

PRODUCT	TYTRONIX <sup>®</sup>	TYTRONIX <sup>®</sup> SA	TYTRONIX <sup>®</sup> A	TYTRONIX <sup>®</sup> 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	Water Retention Workability	False Set Control Water
		Workability	Board Life	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.

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