**MORSET®**

Non-Chloride, Non-Corrosive Set Accelerating Admixture for Masonry Mortar

Short-form Specification

[Specifier: This short-form specification is for MORSET, a non-chloride, non-corrosive, set accelerating mortar admixture. MORSET is fully compatible with DRY-BLOCK® Integral Water Repellents. This product can also be used in mortar which does not contain DRY-BLOCK Mortar Admixture. If Section 04 20 00 UNIT MASONRY includes the mortar specification, this short-form specification should be incorporated in the mortar portions of the section. You may also elect to use Section 04 05 13 MASONRY MORTARING or Section 04 05 00 COMMON WORK RESULTS FOR MASONRY for mortar materials.]

[Specifier: Incorporate the following information in Part 1 – GENERAL]

1. GENERAL
	* + 1. SUMMARY
				1. Section includes set accelerator for mortar.

[Specifier: If choosing to retain optional "Related Sections" paragraph below, edit to correspond to sections used in Project.]

* + - * 1. Related Sections:

Section 04 05 00 COMMON WORK RESULTS FOR MASONRY for water-repellent admixture for masonry mortar.

Section 04 05 13 MASONRY MORTARING for water-repellent admixture for masonry mortar.

Section 04 20 00 UNIT MASONRY for water-repellent admixture for concrete masonry units [and masonry mortar].

[Specifier: Optional "References" Article below is included here for information purposes.]

* + - 1. REFERENCES
				1. American Concrete Institute (ACI), ACI 530.1 Building Code Requirements and Specification for Masonry Structures and Related Commentaries
				2. ASTM International (ASTM), ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
				3. ASTM C403/C403M Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance
				4. ASTM C780 Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
				5. ASTM C1384 Standard Specification for Admixtures for Masonry Mortars
				6. National Concrete Masonry Association (NCMA), NCMA TEK 03-01C All-Weather Concrete Masonry Construction.
			2. SUBMITTALS
				1. Product Data: Submit for specified products.
				2. Certificate: From masonry Installer, stating that only non-chloride, non-corrosive set accelerator that is compatible with other mortar constituents has been used on Project.
				3. Test and Evaluation Reports: Prepared by qualified independent laboratory indicating compliance with performance requirements.
			3. PROJECT CONDITIONS
				1. Cold Weather Construction Requirements: If ambient temperature falls below or is predicted to fall below 40 deg F (4.4 deg C) or if the temperature of masonry units is below or is predicted to fall below 40 deg F (4.4 deg C), comply with cold weather construction requirements of ACI 530.1 or NCMA TEK 03-01C.

[Specifier: Incorporate the following in Part 2 – PRODUCTS]

1. PRODUCTS
	* + 1. MORTAR ADMIXTURES
				1. Set-Accelerating Mortar Admixture: Non-chloride, non-corrosive mortar admixture complying with ASTM C1384 and formulated by manufacturer to accelerate the set of masonry mortar during cold weather conditions.

[Specifier: Delete the following subparagraph if proprietary specification method is not allowed.]

Product: Provide the following: GCP Applied Technologies, (800) 558‑7066, [**www.gcpat.com**](http://www.gcpat.com), MORSET Mortar Admixture.

* + - 1. PERFORMANCE REQUIREMENTS
				1. Time of Setting of Concrete Mixtures, ASTM C403:

Initial Set Utilizing Set Accelerating Admixture: Not less than one hour earlier and not more than three and one-half hours earlier when compared to reference mortar.

Final Set Utilizing Set Accelerating Admixture: Not less than one hour earlier when compared to reference mortar.

* + - * 1. Compressive Strength of Masonry Mortar, ASTM C109: Minimum 80 percent measure when compared to reference mortar.
				2. Chloride Content: Less than 0.1 percent (100 ppm) chloride.

[Specifier: Incorporate the following in Part 3 – Execution]

1. EXECUTION
	* + 1. MORTAR BEDDING AND JOINTING
				1. Set-Accelerating Mortar Admixture: When required due to environmental conditions, install masonry using mortar containing non-chloride, non-corrosive-type set accelerating admixture in manufacturer's recommend proportion. Mix and handle mortar according to manufacturer's written instructions.

If more than one admixture is used in the mortar, add each admixture to mortar mix separately.

Mix mortar to prescribed performance determined by trial mixes and complete pretesting of mortar, conforming to ASTM C780 for optimum dosage rate, addition sequence, and ultimate performance, including final color of hardened mortar.

Prepare minimum [three] sample batches of mortar containing pigments to illustrate acceptable visual and performance characteristics.

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