



PLANICRETE UA
Universal Latex Additive

SECTION 03 01 00
MAINTENANCE OF CONCRETE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Products for maintenance of concrete, including the following:
 - 1. Bonding agents.

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete.

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM C1059 Type II - Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum of 5 years' experience in manufacturing similar products.
- B. Installer Qualifications: Minimum of 2 years' experience in installing similar products.

1.6 PRE-INSTALLATION MEETINGS

- A. Convene at least two weeks prior to starting work of this section.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits



recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.9 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer:

MAPEI North America
1144 E. Newport Center Dr.; Deerfield Beach, FL 33442
Toll-Free for CRS Technical Services: Tel. 888-365-0614
Email: CRS@mapei.com
Web: www.mapei.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
- C. Substitutions: Not permitted.

2.2 BONDING AGENTS

- A. Latex Bonding Agent, no re-dispersible: ASTM C1059 Type II.
 - 1. Product: Subject to compliance with requirements, provide MAPEI Corporation; Planicrete UA.
 - 2. Application: For use in exterior and interior structural concrete repairs and concrete toppings.
- B. Slurry Bond Coat: Use it undiluted and mixed with Portland cement.
 - 1. Subject to compliance with requirements, provide MAPEI Corporation; Planicrete UA.

2.3 MISCELLANEOUS MATERIALS

- A. Portland cement: ASTM C150, Type I, II or III unless otherwise indicated.
- B. Water: Potable.

2.4 MIXES

- A. General: Mix products, in clean containers, according to manufacturer's written instructions.
 - 1. Do not add water, thinners or additives unless recommended by manufacturer.
 - 2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovels or trowels as units of measure.
 - 3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.



PART 3 EXECUTION

3.1 EXAMINATION

- A. Properly prepared masonry and concrete at least 28 days old, sound, stable and SSD.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. All substrates must be structurally sound, stable and solid with all loose materials removed.
- B. Thoroughly clean the surface with any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, form release agents, laitance, loose toppings, foreign substances and any other residues.
- C. Concrete surfaces must be mechanically profiled and prepared. Refer to the International Concrete Repair Institute (ICRI) for concrete surface profile (CSP) standards.
- D. Concrete substrate and ambient room temperatures must be between 45°F and 95°F (7°C and 35°C) before application. Temperatures must be maintained within this range for at least 24 hours after the installation of repair mortars and toppings.
- E. Do not apply over standing water.

3.3 MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.. Refer to the Technical Data Sheet for mixing ratios.

3.4 INSTALLATION

Read all installation instructions thoroughly before installation.

- A. Place slurry bond coat onto a saturated surface-dry (SSD) and properly prepared concrete surface.
- B. Place repair mortar or topping onto the slurry bond coat while it is still wet. For exterior applications, provide uniform slopes to drains for water management.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch up, repair or replace damaged products before substantial completion.

END OF SECTION