

GUIDE SPECIFICATION FOR POLY-GRIP™: TWO-COMPONENT, POLYESTER-BASED ANCHORING ADHESIVE

SECTION 03 63 00

EPOXY GROUTING

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) format. The section must be carefully reviewed and edited by the architect or engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W. R. MEADOWS® POLY-GRIP is a two-component, non-sag, polyester-based, very rapid curing and hardening, high strength, structural anchoring adhesive packaged in a unitized cartridge system.

POLY-GRIP is ideal for structural anchoring and doweling in a wide range of temperatures [20° F - 120° F (-6.7° C - 48.9°C)]. This product is suitable for interior or exterior applications, including industrial, residential, and civil engineering applications. The very rapid hardening properties of POLY-GRIP ensure minimum downtime and quick bolt-up time.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of a two-component, polyester-based anchoring adhesive.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 03 01 30.61 – Resurfacing of Cast-in-Place Concrete.
- B. Section 03 01 30.71 – Rehabilitation of Cast-in-Place Concrete.

1.03 REFERENCES

- A. ASTM C881 - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete.
- B. ASTM E488-96 - Standard Test Methods for Strength of Anchors in Concrete and Masonry Elements.
- C. ICBO AC58 - Acceptance Criteria for Adhesive Anchors in Concrete and Masonry Elements.

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

- B. Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Protect materials during handling and application to prevent damage or contamination.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply when the temperature is expected to be below 20° F (-6.7° C) or above 120° F (48.9° C) within 24 hours.
- B. Do not apply when rain is imminent.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. W. R. MEADOWS, INC., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site www.wrmeadows.com.

2.02 MATERIALS

- A. Performance-Based Specification: Structural anchoring adhesive shall be a two-component non-sag, polyester-based, rapid curing, high strength material.
- B. Proprietary-Based Specification: POLY-GRIP polyester-based anchoring adhesive unitized cartridge system by W. R. MEADOWS.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine surfaces to receive polyester adhesive. Notify architect or engineer if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.
- B. Ensure all anchoring and doweling configurations and designs are approved by the engineer.

3.02 SURFACE PREPARATION

- A. Drill hole to proper diameter and length as instructed by the engineer, ensuring the diameter of the hole is no more than 1/8" larger than anchor diameter.
- B. Using oil-free compressed air, blow out dust from bottom of the hole.
- C. Brush the hole with a nylon brush.
- D. Blow out dust from bottom of the hole again.
- E. Ensure hole is clean of dust and debris and dry to obtain optimal properties.

3.03 APPLICATION

- A. Insert cartridge into the gun and remove plastic band and black caps from cartridge.
- B. Dispense a small amount of adhesive into a disposable container until an even flow of black and white material is obtained.
- C. Secure nozzle on cartridge with supplied nut, ensuring a tight, leak-proof seal.

- D. Dispense enough adhesive into a disposable container until the color becomes consistent gray with no streaks.
- E. Dispense adhesive starting from the bottom of the hole.
- F. Fill hole approximately 5/8 of the depth while slowly withdrawing the nozzle.
- G. Ensure threaded rod, rebar, or dowel is free of dirt, grease, oil, or other foreign materials.
- H. Insert the threaded rod, rebar, or dowel to the bottom of the hole while turning clockwise.
- I. Do not disturb or bolt-up until minimum bolt-up time has passed.

END OF SECTION