PRODUCT DATA

W. R. MEADOWS
SEALTIGHT

CSI Code: 03930

NO. 397

APRIL 2004
(Supersedes February 2003)

POLY-GRIP™

Two-Component, Polyester Based Anchoring Adhesive,
Unitized Cartridge System

DESCRIPTION

Two-component, non-sag, polyester-based, very rapid curing and hardening, high strength, structural anchoring packaged in a unitized cartridge system.

USES

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

TECHNICAL DATA*

- Color: Gray
- Mix Ratio (A to B) 10:1
- Consistency
  ASTM C 881 Non-Sag
- Pot Life @ 75ºF (23.9ºC)
  ASTM C 881 5-10 Min.
- Pot Life @ 35ºF (1.7ºC)
  ASTM C 881 75-105 Min.

*All technical data is typical information, but may vary due to test methods, conditions and operators.

PACKAGING

28 fl. oz. cartridge (10 per carton)

SHELF LIFE

9 months when stored on pallets in a dry, cool area.

YIELD

28 fl. oz. cartridge yields 50 cu. in. (825 mL)

FEATURES AND BENEFITS

- Very rapid hardening / Minimum bolt-up time at 75º F is 1 hour
- Temperature use range of 20ºF (-6.7ºC) to 120ºF (48.9ºC)/ Wide range of application uses
- Requires no conditioning to tight temperature range / Rapid dispensing rate through application range
- Highly engineered / Added dynamic stability
- Very forgiving mix ratio / Greatest level of job-site reliability
- Suitable for hollow block / Designed to be compatible with screen systems
- Moisture insensitive when cured / Suitable for damp environments
- Non-sag / Minimizes waste

LOAD TABLE

Temperature (ºF)	Working Time (Minutes)	Load Time (Minutes)
85	5.5	30
78	7	55
45	35.5	90
35	90	240

Recommended for temperatures between 20ºF to 120ºF (-6.7ºC to 48.9ºC). Warming of cartridge may be necessary when using below 40ºF (4ºC).

ADDITIONAL RESTORATION PRODUCTS FROM W. R. MEADOWS CAN BE FOUND BY VISITING OUR WEBSITE: www.wrmeadows.com

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ULTIMATE PULL-OUT & SHEAR STRENGTH VALUES
(Test Concrete F'c=2000 psi.)

			Threaded Rod		Rebar
Anchor Rod Diameter (Inches)	**Hole Diameter (Inches)**	**Embedment Depth (Inches)**	**Tensile Load (lbs.)**	**Shear Load (lbs.)**	**Tensile Load (lbs.)**
3/8	7/16	3 – 3/8	4,200	Not Tested	Not Tested
1/2	9/16	4 – 1/2	12,000	9,000	13,250
5/8	3/4	5 – 5/8	13,500	15,500	14,500
3/4	7/8	6 – 3/4	17,250	22,500	15,750
7/8	1	7 – 7/8	25,000	32,500	30,000
1	1 – 1/4	9	27,500	41,500	44,500

Testing was performed in accordance with ASTM E 488-96 and ICBO AC58. Testing used B7 threaded rod and Grade 60 rebar. All physical properties are laboratory based, onsite testing may result in different values due to environmental, mixing, variations in concrete strength and curing temperatures.

APPLICATION

Anchoring / doweling configurations and designs must be approved by a qualified Professional Engineer.

Surface Preparation…Drill hole to proper diameter and length. In most cases, the diameter of the hole should be no more than 1/8 inch larger than anchor diameter. Using oil-free compressed air, blow out dust from bottom of the hole. Brush the hole with a nylon brush. Blow out dust from bottom of the hole, again. The hole should be clean of dust and debris and should be dry to obtain optimal properties.

Dispensing…Insert cartridge into the gun. Remove plastic band and black caps from cartridge.

Dispense a small amount of POLY-GRIP into a disposable container until you get an even flow of black and white material.

Secure nozzle on cartridge with supplied nut, ensuring a tight, leak-proof seal. Dispense enough POLY-GRIP into a disposable container until the color becomes consistent gray with no streaks.

Dispense POLY-GRIP starting from the bottom of the hole. Fill hole approximately 5/8 of the depth while slowly withdrawing the nozzle. While dispensing make sure that POLY-GRIP is not leaking from the cartridge. If this occurs, discontinue use immediately and continue to work with a new cartridge and nozzle.

Insert the threaded rod, rebar or dowel to the bottom of the hole while turning clockwise. The threaded rod, rebar or dowel should be free of dirt, grease, oil, or other foreign materials**. Do not disturb or bolt-up until minimum bolt-up time has passed.**

PRECAUTIONS

Do not apply POLY-GRIP when the temperature is expected to be below 20°F (-6.7°C) or above 120°F (48.9°C) within 24 hours or when rain is imminent. Requires dry substrate for maximum performance. Diameter of the anchor/dowel hole must not be greater than ¼∈of the diameter of the anchor/dowel.
For industrial use only by professional contractors.

SAFETY AND TOXICITY

Avoid direct contact with this material. Eye contact may result in mild to moderate irritation. Skin contact may result in mild to moderate irritation. Inhalation may cause respiratory tract irritation. Skin and eye sensitization may occur in susceptible individuals. Ingestion may result in mild to moderate irritation of the gastrointestinal tract.

TO VERIFY MOST RECENT TECHNICAL DATA SHEET IS BEING USED, VISIT OUR WEBSITE: www.wrmeadows.com

LIMITED WARRANTY

"W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

Disclaimer

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