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PAC-IT® Expansive Dry Pack Grout

DESCRIPTION

PAC-IT packable grout is a non-ferrous, non-shrink grout specifically formulated for grouting applications, without the need for expensive form work. PAC-IT is a pre-mixed, low-slump grout with high density and high strength. PAC-IT offers excellent workability and high one-day strengths in addition to the non-shrink property.

USES

PAC-IT is ideal for grouting column bases, precast walls, panels, beams, pre-tensioned or post-tensioned, pre-stressed member applications.

FEATURES/BENEFITS

- Furnished premixed ... ready to use ... just add water.
- Offers high density and one-day strengths with non-shrink characteristics.
- Mixes quickly and easily to desired consistency right on the jobsite.
- Features excellent workability.
- Requires no bonding agent.
- Forms are not required ... saves time and money.
- No Added Chloride or Gypsum.

PACKAGING

50 lb. (22.7 kg) Poly-Lined Bags

COVERAGE

Each bag yields 0.43 (0.0122 m³) of in-place grout using 7.5 pints (3.55 L) of water.

SHELF LIFE

Twelve months when stored indoors on pallets in a dry, cool area. Do not store product outside.

TECHNICAL DATA

Mix: 7 1/2 pints (3.55 L) of water per 50 lb. (22.7 Kg) bag of PAC-IT

Flow: 25%, 5 drops of the Flow Table within 2 minutes.

Setting Time* (Per ASTM C 191)

Initial Set	30 minutes
Final Set	1 hour 10 minutes

Compressive Strength* (Per ASTM C 109)

24 hours	4,800 psi (33.1 MPa)
3 days	6,400 psi (44.1 MPa)
7 days	6,900 psi (47.6 MPa)
28 days	7,500 psi (51.7 MPa)

Expansion (Per ASTM C 157)

28 days @ 90% RH	0.125%
Water Immersed	0.220%

VOC Content: 0 g/L

All technical data is typical information, but will vary due to testing methods, conditions, procedures, batching variations, and raw materials variances.

*Set time, strength development and performance are dependent on temperature; therefore, follow ACI methods during hot or cold weather grouting.

ACI 305R-91 "Standard on Hot Weather Concreting"

ACI 306R-88 "Standard on Cold Weather Concreting"

APPLICATION

All grouting should be done using established concreting procedures according to American Concrete Institute recommendations: ACI 351.1R-93 "Grouting for Support of Equipment and Machinery." Failure to follow all industry standard practices, such as the American Concrete Institute (ACI), will compromise the performance of the PAC-IT and/or grouting system.

CONTINUED ON REVERSE SIDE...

This data sheet does not supersede any and/or all engineering, architectural, or equipment manufacturers' recommendations or drawings. A professional engineer must determine suitability of PAC-IT for grouting, anchoring, doweling, or any other use. This is not a standalone engineering document. The design configuration or system is the sole responsibility of the licensed design professional for the project, equipment manufacturer, or installing contractor.

Surface Preparation ... Mechanically roughen or abrasive blast concrete substrate. Remove all unsound concrete and provide a profiled, porous surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants, coatings, sealers, or similar that will adversely affect bond. Sanding, acid etching, cup-grinding, or wire-abrading are not approved concrete surface preparation methods. Substrate must be rough and profiled, but generally level. Grouting area must be saturated with water two hours prior to grouting to a saturated surface dry condition. Remove all excess water before placing grout.

Mixing ... Small quantities of PAC-IT may be hand-mixed in a concrete mixing pan until lump-free. For large quantities, mix using a mortar mixer with rubber-tipped blades for three minutes and until lump-free. Use minimum water required to produce desired placement consistency.

Mixing requirements per bag:

7 pts. (3.3 L) for stiff consistency

8 pts. (3.79 L) for plastic consistency

Mix in two steps. First, add 2/3 of water requirement. Then, add grout. After partial mixing, add remainder of water to achieve desired consistency.

Do not mix more material than can be placed in 30 minutes.



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

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

Placement ... Place by packing or rodding in to area to be grouted.

Curing ... Cure immediately following application, cure PAC-IT using a suitable curing compound from W. R. MEADOWS, or in accordance with ACI 308. 2200-WHITE series or 1100-CLEAR series from W. R. MEADOWS is recommended. When conditions exist for rapid early water loss, the use of EVAPRE™ from W. R. MEADOWS is also recommended.

HEALTH AND SAFETY

Avoid direct contact with this product, as it may cause skin and eye irritation. Utilize gloves and safety glasses to minimize direct contact. Avoid inhalation of dust. Inhalation may cause respiratory irritation and/or lung disease (silicosis). This product contains silicon dioxide, which is carcinogenic to humans (IARC Group 1A). The use of NIOSH approved respiratory protection is recommended in dusty environments. Refer to Material Safety Data Sheet for complete health and safety information.

LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 2: Construction Waste Management
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials

For most recent data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.