

PRODUCT DATA

W. R. MEADOWS®

SEALIGHT®

CSI Code: 32 01 29.61

NO. 398-B

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FUTURA®-45 EXTENDED

Rapid-Setting Concrete

DESCRIPTION

FUTURA-45 EXTENDED is a one-component, shrinkage-compensated, proprietary blend of cements, aggregates, and performance-enhancing chemical additives. This rapid setting concrete is mixed with water on site and used for large-scale horizontal concrete repairs and form and pour vertical applications that require high early-strength gain.

USES

FUTURA-45 EXTENDED is ideal for interior and exterior horizontal concrete surfaces, such as airport runways, concrete slab replacement, bridge repair, and parking decks.

FEATURES/BENEFITS

- Very rapid setting structures can be opened to vehicular traffic in three hours.
- Non-gypsum based with volume stability.
- Excellent resistance to freeze/thaw; outstanding durability.
- Shrinkage compensation; minimizes cracking from drying shrinkage.

LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

PACKAGING

70 Lb. Bags

3000 Lb. Bulk Bags

STORAGE

Store and transport in clean, dry conditions between 40° F and 85° F in unopened containers.

SHELF LIFE (TYPICAL)

Nine (9) months when properly stored.

YIELD

Approx. .60 ft.³/70 lb. bag when mixed with the recommended amount of water.

TECHNICAL DATA

Working time ... Approx. 30-40 minutes.

Set time (min) at 72° F (22° C) ASTM C 191

Initial 40-50

Final 45-60

Application Temperature Range ... 40° F - 90° F.

Compressive strength - psi. 3"x 6" cylinders (ASTM C 109)

2 hr 2000

3 hr 3000

1 day 5000

28 days 8500

VOC content ... 0 g/L.

SURFACE PREPARATION

Perform surface preparation in accordance with ICRI technical guidelines. Concrete must be sound and fully cured (28 days). Saw cut the perimeter of the area being patched into a square with a minimum depth of 1/2" (13 mm). Remove all unsound concrete and roughen the surface to a minimum 1/4" profile amplitude. Remove all laitance, oil, grease, curing compounds, and other contaminants that could prevent adequate bond. The concrete substrate should be saturated surface dry (SSD), without standing water, before application. Apply the mixed material onto the prepared SSD substrate by trowel or screed. Ensure proper consolidation of the mortar and compaction around reinforcing steel. Minimum application thickness is 1" based on a 3/8" maximum coarse aggregate. Finish the completed repair, as required, taking care not to overwork the surface.

Reinforcing Steel ... Remove all oxidation and scale from the exposed reinforcing steel in accordance with ICRI Technical Guideline No. 03730 "Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion."

CONTINUED ON REVERSE SIDE...

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MIXING

Mix with 5 - 5.5 pints (.65 gal.) of potable water per 70 lb. bag. Conduct field trials to verify proper slump (approx. 8"), yield, and a thoroughly mixed product.

CURING

Cure immediately after finishing. Use a curing compound that complies with ASTM C 309. In extreme heat, keep the patches covered and damp.

CLEANUP

Clean tools and equipment with clean water immediately after use. Cured material must be removed mechanically.

PRECAUTIONS

Read and follow application information and use in accordance with the health and safety information shown on the label. Refer to Material Safety Data Sheet for complete health and safety information.

For further LEED information, visit 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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