

VERSASPEED

RAPID SETTING REPAIR MORTAR

DESCRIPTION

VERSASPEED is a versatile, one part, rapid setting patching and repair compound for horizontal, and form and pour repair projects. Requiring only the addition of water, VersaSpeed is a low shrinkage, high early strength material that is easy to use with an accelerated set time for fast project turn around. Repaired areas may be open to standard tire traffic in approximately 2 hours following the final set and an epoxy coating can be applied after 4 hours. VersaSpeed is similar in appearance to concrete and is suitable for use in patching and repairing concrete surfaces from approximately 1/4" to 6" (6 to 152 mm) in thickness.

PRIMARY APPLICATIONS

- Multi-unit residential
- Warehouses
- Industrial / commercial / institutional Floors
- Traffic
- Pavements
- Loading docks
- Roads
- Highways
- Parking decks and ramps
- Form and pour applications

FEATURES/BENEFITS

- Fast set time and quick turnover of projects
- Suitable for interior or exterior applications
- High rapid strength
- Economical repairs
- Open to standard rubber-tire traffic in 2 hours (at 70°F (21° C))
- Can be coated with epoxy in 4 hours at 70°F (21° C)
- Low permeability "Very Low" Coulombs rating allowing excellent freeze/ thaw damage resistance
- Wide temperature range of applications 20° to 85°F (-7° to 29°C)
- Excellent bond to properly prepared sound concrete
- Can be extended up to 50% by weight
- ▲ Can contribute to LEED points

TECHNICAL INFORMATION

Typical Engineering Data

Compressive Strength ASTM C 109, 2" (50 mm) cubes @ 0.44gal/50 lb bag.*

Age	Strength
3 hours	3,500 psi (24.1 MPa)
1 day	5,500 psi (37.9 MPa)
7 days	8,500 psi (58.6 MPa)
28 days	10,000 psi (68.9 MPa)

Flexural Strength ASTM C 348*

1 day	900 psi (6.2 MPa)
7 days	1,000 psi (6.9 MPa)
28 days	1,250 psi (8.6 MPa)

Slant ShearBond ASTM C 882

1 day	>2,550 psi (17.6 MPa)
7 days	>3,000 psi (20.7 MPa)
28 days	>3,150 psi (21.7 MPa)

Note: All data was collected in the laboratory under controlled conditions (70°F & 50% humidity). Expect reasonable variations depending on mixing equipment, temperature and curing conditions.

Linear Shrinkage ASTM C 157*

50% R. H. @ 73°F (23°C)

1 day	-0.064%
7 days	-0.077%
14 days	-0.078%
28 days	-0.083%

Chloride Permeability ASTM C 1202*

28 days

900 coulombs (very low)

Freeze/Thaw Resistance ASTM C 666 Procedure A*

300 Cycles..... 100.8% relative dynamic modulus

Set Time ASTM C 403 @ 72°F (22°C)

Initial Set

15 to 30 min

Final Set

20 to 40 min

Unit Weight.....

144 lb/ft³ (2245 kg/m³)

* Per ICRI Guideline 03740 'Data Sheet' Protocol

PACKAGING/YIELD

VERSASPEED is packaged in 50 lb (22.7 kg) bags. **Yield:** 0.37ft³ (0.01m³) per bag when mixed with .42 gal (1.6 L) of water. VERSASPEED may be extended with up to 25 lbs (11.4 kg) of thoroughly washed, damp, sound, non (ASR) reactive # 8 pea gravel. Approximate Extended Yield: 0.52 ft³ (0.0147 m³) per bag.

SHELF LIFE

2 years in original, unopened package.

COVERAGE

One unit of VERSASPEED will cover approximately 4.4 ft² (0.41 m²) when placed at an average depth of 1" (25 mm).



The Euclid Chemical Company

19218 Redwood Rd. • Cleveland, OH 44110

Phone: [216] 531-9222 • Toll-free: [800] 321-7628 • Fax: [216] 531-9596

www.euclidchemical.com

An **RPM** Company



DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to a minimum depth of 1/8" (3 mm) to achieve a surface profile equal to CSP 6 - 7 in accordance with ICRI Guideline 03732. Properly clean profiled area. **Priming:** Clean and prime exposed steel with DURALPREP AC. Concrete should be primed with a spray or brush coat of DURALPREP AC. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of VERSASPEED. The repair must be made before the scrub coat dries out.

Mixing: Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 60°F (15°C) to 95°F (35°C). Add the appropriate amount of water for the batch size and then add the VERSASPEED. **The amount of water to be mixed with the VERSASPEED is critical. Initially add 0.42 gal/54oz (1.6 L/1597mL) of water per 50 lb (22.7 kg) bag and mix for 2 minutes. If after the initial 2 minutes of mixing, the desired flow is not obtained, no more than 6 oz (177mL) of additional water should be added to the mix in order to achieve more flow.** Mix an additional 2 minutes after adding extra water. Use neat material for patches less than 1" (25 mm) in depth. For deeper patches, VERSASPEED may be extended. This may alter certain engineering properties. Contact The Euclid Chemical Company for additional information.

Placement: Important-The application temperature range of VERSASPEED is from 20° to 85°F (-7 to 29°C). For temperatures above 85°F (29°C) use VersaSpeed LS. Allow approximately 15 minutes to mix, place, and finish VERSASPEED repair mortar at 72°F (22°C). For patching, spread with a float, come-a-long, or square tipped shovel to a thickness that is level with the surrounding concrete. Do not use VERSASPEED for patches less than 1/4" (6 mm) deep.

Finishing: Finish the repair material to the desired texture. For an epoxy topcoat, a broom finish is required. Do not add additional water to the surface during the finishing operation. When steel trowel finishing, it is suggested to allow the repaired area to stand undisturbed until it has reached initial set, approximately 15 to 30 minutes. If a finishing aid is required, Eucobar is recommended.

Curing/Sealing: When an epoxy topcoat will not be applied, wet cure the surface with water and burlap or polyethylene sheets at least one day, or use a curing compound. **Topping and Sealing:** VERSASPEED can be coated with epoxy systems within 4 hours at 70°F (21°C). After curing, if a sealing compound is desired, any of The Euclid Chemical sealing compounds is suggested.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS/LIMITATIONS

- The application temperature range of VERSASPEED is 20 to 85°F (-7 to 29°C).
- Do not use VERSASPEED for patches less than 1/4 inch (6 mm) deep.
- Extending VERSASPEED with #8 pea gravel may alter certain engineering properties by 15% to 20%.
- Do not add additional water to the surface during the finishing operation. If needed, use EUCOBAR as a finishing aid.
- If an epoxy topcoat will be applied, the repair should be broom finished.
- In all cases, consult the Material Safety Data Sheet before use.

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.