



EUCLID CHEMICAL

## RAPID HARDENING CONCRETE REPAIR MORTARS

# VERSASPEED 100 VERSASPEED LS 100



### TYPICAL APPLICATIONS

- Interior and exterior horizontal concrete repairs
- Vertical and overhead formed repairs
- Concrete roadways, parking structures and bridges
- Floors and columns

### FEATURES AND BENEFITS

- Very rapid setting
- Micro fiber reinforcement controls plastic shrinkage cracking
- Polymer modified for excellent bond strength
- Low permeability
- Can be coated in as little as 4 hours
- Contains shrinkage compensation and reduction additives
- Excellent freeze-thaw durability
- Choice of standard or long working time formulas

**VERSASPEED 100** is a rapid hardening concrete repair mortar ideal for projects that require a quick turnaround time. Repairs can typically be open to light traffic just one hour after placement and coatings can be applied in four hours. **VERSASPEED LS 100** is a longer setting formulation that provides a speedy cure with additional working time, making it perfect for elevated temperature applications or when worksite conditions cannot accommodate a rapid setting mortar.

Versaspeed 100 and Versaspeed LS 100 are fortified with micro fiber to increase tensile strength and help prevent plastic shrinkage cracking, and both contain unique polymers that improve adhesion and durability. To further combat shrinkage, Versaspeed 100 and Versaspeed LS 100 contain both shrinkage compensating and reducing additives. Versaspeed 100 and Versaspeed LS 100 are high performance mortars well-equipped to produce concrete repairs that are not only strong and durable, but also contribute to the success of a project where speed and return to service are paramount.

### VERSATILITY AND SPEED COMBINED

Concrete repairs come in all shapes and sizes, and Versaspeed 100 and Versaspeed LS 100 can accommodate most needs thanks to their wide range of application thickness. Shallow repairs, as little as 1/4 inch (0.64 cm) deep, and deeper voids up to two inches (5 cm) in depth can be filled with Versaspeed 100 and Versaspeed LS 100 without extending. Add clean, dry pea gravel to the mix, and patches up to six inches deep (15 cm) can be repaired. Interior or exterior, thin or thick, the versatility of Versaspeed 100 and Versaspeed LS 100 make these mortars indispensable to a concrete repair contractor.

Today's schedule-driven projects require quick solutions, especially when repairing concrete that is already in service. Versaspeed 100 repairs can take light tire traffic in as little as one hour after placement, and full return to service in just two hours. Versaspeed LS 100, with its longer working time, is light traffic ready in four hours, and after five hours is fully back in service. Coatings can be applied over Versaspeed 100 just four hours after installation, and after five hours for Versaspeed LS 100.

### EXCEEDING INDUSTRY STANDARDS

Versaspeed 100 and Versaspeed LS 100 meet the requirements of ASTM C 928, Standard Specification for Rapid-Hardening Cementitious Materials for Concrete Repairs, and are approved for use by many U.S. state Departments of Transportation.



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## VERSASPEED 100 AND VERSASPEED LS 100 TYPICAL ENGINEERING DATA

PROPERTY	VERSASPEED 100	VERSASPEED LS 100
Compressive Strength	10,500 psi (72 MPa)	8,000 psi (55 MPa)
Slant Shear Bond Strength	2,700 psi (19 MPa)	2,800 psi (19 MPa)
Flexural Strength	1,500 psi (10 MPa)	1,100 psi (8 MPa)
Length Change	Air cure: -0.042% Water cure: +0.007%	Air cure: - 0.030% Water cure: +0.013%
Splitting Tensile Strength	780 psi (5 MPa)	480 psi (3 MPa)
Initial Set Time	10 to 20 minutes	30 to 60 minutes
Final Set Time	20 to 40 minutes	60 minutes to 1 hour 40 minutes
Unit Weight	141 lb/ft <sup>3</sup> (2,259 kg/m <sup>3</sup> )	141 lb/ft <sup>3</sup> (2,259 kg/m <sup>3</sup> )
Minimum/Maximum Application Depth	Minimum: 0.25 inch (0.6 cm) Maximum: 2 inches (5 cm) neat; 6 inches (15 cm) extended	Minimum: 0.25 inch (0.6 cm) Maximum: 2 inches (5 cm) neat; 6 inches (15 cm) extended
Mix Ratio	0.66 gallon of water per 50 lb bag (2.5 L per 23 kg)	0.66 gallon of water per 50 lb bag (2.5 L per 23 kg)
Yield	0.39 ft <sup>3</sup> (0.01 m <sup>3</sup> ) unextended Up to 0.52 ft <sup>3</sup> (0.015 m <sup>3</sup> ) extended	0.39 ft <sup>3</sup> (0.01 m <sup>3</sup> ) unextended Up to 0.52 ft <sup>3</sup> (0.015 m <sup>3</sup> ) extended
Recommended Curing	Curing compound or one day wet cure	Curing compound or one day wet cure

For additional technical information, refer to the Versaspeed 100 and Versaspeed LS 100 data sheets

## COMPLIMENTARY PRODUCTS

- Versaspeed 100 and Versaspeed LS 100 can be cured with **KUREZ DR VOX** or any Euclid Chemical curing compound.
- <sup>a</sup> **EUCOBAR** is a liquid evaporation retarder used to aid finishing in hot, dry, or windy conditions.

## SERVICE AND SUPPORT

The Euclid Chemical Company is unique in our offering of superior products, unparalleled customer service and industry support. The Euclid Chemical team delivers a range of value-added resources and in-depth industry experience to architects, designers, engineers, building contractors and owners. Our experts are highly-trained professionals who are available in local offices across the Americas, and are active members on industry technical committees including American Concrete Institute (ACI), International Concrete Repair Institute (ICRI) and American Society for Testing and Materials (ASTM). Our experienced field team is available to support you and your projects using Euclid Chemical solutions and products manufactured under the stringent standards of our ISO 9000 certified quality system. The Euclid Chemical Company works hand-in-hand with customers:

- Supplying field evaluations, recommendations and application problem solving on a project-by-project basis.
- Assisting in product selection, specification, installation and related technology.
- Attending pre-design meetings, assisting in clarifying specifications, and recommending product selection.
- Supporting you by providing proper pre-installation instructions and methods for achieving quality results.

For more than 100 years, The Euclid Chemical Company has served as a leading supplier to the concrete and masonry industry, offering a full line of engineered concrete admixture and construction products marketed under the EUCO brand name. These products include concrete admixtures, block and masonry additives, curing and sealing compounds, epoxy adhesives, floor and wall coatings, structural grouts for columns, equipment and machinery, joint fillers and repair products. The Euclid Chemical Company strives to bring innovative technologies and products to the concrete market with industry-leading customer service.