



# EUCOREPAIR V100

## SINGLE-COMPONENT, LOW SHRINKAGE, VERTICAL/OVERHEAD REPAIR MORTAR

### DESCRIPTION

**EUCOREPAIR V100** is a single-component, quick-setting, low shrinkage repair mortar formulated with unique polymers and fiber reinforcement for trowel applied vertical and overhead repairs requiring high performance.

### PRIMARY APPLICATIONS

- Vertical and overhead repairs
- Resurfacing of damaged/deteriorated concrete
- Marine structures, tunnels and dams
- Parking structures & bridges
- Above and below grade applications

### FEATURES / BENEFITS

- Single-component for easy mixing and handling
- Excellent freeze-thaw resistance for difficult climates
- Polymer modified with fiber reinforcement
- Contains an integral corrosion inhibitor
- Low permeability helps protect rebar from corrosion
- High bond strength provides excellent adhesion

### TECHNICAL INFORMATION

#### Typical Engineering Data @ 24°C, 50% RH

Property	Results
<b>Compressive Strength</b> ASTM C 109 modified, 5 cm cubes, MPa	3 hours 13.8 1 day 20.7 7 days 31.0 28 days 41.4
<b>Split Tensile Strength</b> ASTM C 496, MPa	1 day > 1.4 7 days > 1.7 28 days > 2.8
<b>Flexural Strength</b> ASTM C 348, MPa	1 day > 2.8 7 days > 3.4 28 days > 4.1
<b>Bond Strength</b> ASTM C 882, (MPa)	7 days > 9.7 28 days > 12.4
<b>Modulus of Elasticity</b> ASTM C 469, MPa	28 days $1.83 \times 10^4$
<b>Length Change</b> ASTM C 157 modified (3"x3"x11.25" specimens)	28 days -0.020%
<b>Unit Weight</b>	1,922 kg/m <sup>3</sup>
<b>Set Times</b>	Initial: ~ 20 min. Final: ~ 35 min
<b>Adhesion</b> , elcometer	2.9 N/mm <sup>2</sup>

**Appearance:** EucoRepair V100 is a free-flowing powder designed to be mixed with water. After mixing and placing, the color may appear darker than the surrounding concrete. While this color will lighten as the EucoRepair V100 cures and dries out, the repair may always appear darker than the surrounding concrete.

## PACKAGING

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EucoRepair V100 is packaged in 25kg moisture resistant bags. Yield: 15L.  
25 kg bag when mixed with 4.5L of water.

## COVERAGE

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One unit of EucoRepair V100 will cover approximately 1.0 m<sup>2</sup> when placed at an average depth of 13 mm.

## SHELF LIFE

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1 year in original, unopened package

## DIRECTIONS FOR USE

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**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 achieve a surface profile equal to CSP 5 - 7 in accordance with ICRI Guideline 310.2. 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. The primer coat of DURALPREP AC must be allowed to thoroughly dry prior to the application of EucoRepair V100. Alternatively, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of EucoRepair V100. The repair must be made before the scrub coat dries out.

**Mixing:** Single bags may be mixed with a drill and "jiffy" type mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 16°C to 32°C. Add the appropriate amount of water, 4.0 to 4.5L/bag into a clean mixing vessel, then add the dry product. Mix for 3 to 5 minutes. Do not mix more material than can be placed within 15 minutes.

**Placement:** Place in 3 to 100 mm lifts for vertical surfaces and 3 to 50 mm lifts for overhead applications. Trowel into place and allow to reach final set before the next lift. If additional lifts are required, score the surface of the placed mortar before it reaches final set.

**Finishing:** Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation. Use EUCOBAR evaporation retarder.

**Curing and Sealing:** Curing is required. Cure with a Euclid Chemical high solids, water-based curing compound. (NOTE: A SOLVENT BASED CURING COMPOUND SHOULD NOT BE USED ON THIS PRODUCT). Under hot, windy or direct sunlight situations, apply a second coat of curing compound after the first has dried. If a curing compound is not desired, wet cure for a minimum of three days.

## CLEAN UP

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Clean tools and equipment with water before the material hardens.

## PRECAUTIONS & LIMITATIONS

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- Do not allow repairs to freeze until the material has reached a minimum of 7 MPa compressive strength.
- In adverse temperatures, follow ACI recommendations for hot/cold weather concrete practices.
- Use only potable water for mixing.
- Minimum application thickness 3 mm.
- Minimum surface and ambient temperature 7°C and rising at time of application.
- For optimum results, condition material to 18°C to 29°C at least 24 hours prior to use.
- Do not use a solvent based curing compound on this product.
- In all cases, consult the Safety Data Sheet before use.

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