



# EUCOREPAIR V100

LOW SHRINKAGE, FIBER REINFORCED, NSF / ANSI STANDARD 61  
 CERTIFIED VERTICAL & OVERHEAD REPAIR MORTAR WITH INTEGRAL  
 CORROSION INHIBITORS

**EUCLID CHEMICAL**

### PACKAGING

EUCOREPAIR V100 is packaged in 25kg polyethylene lined bags.

### APPROXIMATE YIELD

15 Litres per 25kg when mixed with 4.4 litres of water.

### CLEAN-UP

Clean tools and equipment with water before the material hardens.

### SHELF LIFE

1 Year in original, unopened container when stored in dry conditions. Heavy relative humidity will reduce the shelf life.

## DESCRIPTION

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

## PRODUCT CHARACTERISTICS

### FEATURES / BENEFITS

- Single component for easy mixing and handling
- Excellent freeze-thaw resistance for difficult climates
- Polymer modified with fiber reinforcement
- NSF/ANSI Standard 61 certified
- Contains an integral corrosion inhibitor
- Low permeability helps protect rebar from corrosion
- High bond strength provides excellent adhesion
- Apply coatings after 6 hours at 21 °C

### PRIMARY APPLICATIONS

- Vertical and overhead repairs
- Parking structures & bridges
- Water and wastewater treatment facilities
- Marine structures, tunnels and dams
- Above and below grade applications

## TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Property	Results at 25 °C	
Compressive Strength ASTM C109 modified, 50mm cubes	1 Day	20.7 MPa
	7 Days	31.0 MPa
	28 Days	41.4 MPa
Split Tensile Strength ASTM C496	28 Days	>2.8 MPa
Flexural Strength ASTM C348	7 Days	>3.4 MPa
	28 Days	>4.1 MPa
Bond Strength (ASTM C882)	7 Days	>9.7 MPa
	28 Days	>12.4 MPa
Length Change ASTM C157 modified (3" x 3" x 11.25" specimens)	28 Days	-0.020%
Unit Weight	~ 1.922kg/m <sup>3</sup>	
Set Times	Initial: ~ 20 min	Final: ~ 50 min

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

Eucorepair V100 (2) April 2023 replaces September 2020

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## 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 expose the main aggregate and achieve a surface profile equal to CSP 5-7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

**Priming & Bonding (Saw Cut & Chipped Out Repairs):** Thoroughly clean any exposed reinforcing steel and apply. Saturated surface dry (SSD) concrete surface may be used for bonding.

**Priming & Bonding (Vertical & Overhead Skim Coats / Toppings):** Apply EUCOREPAIR V100 to the saturated surface dry (SSD) concrete surface.

**Mixing:** For optimum results, condition material to be mixed to 18°C to 26°C at least 24 hours prior to use. Single bags may be mixed with a drill and “jiffy” type mixer. Use a paddle type mortar mixer for large jobs. Add the appropriate amount of water, 3.8 to 4.4 litres/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:** Do not apply to surfaces or in ambient temperatures below 7°C. Place in 3 to 100mm lifts for vertical surfaces and 3 to 50mm 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.

**Curing & 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. When curing EUCOREPAIR V100 in potable water vessels, it is recommended to wet cure for 3 days, followed by 4 days of air cure prior to filling the vessel.

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## PRECAUTIONS / LIMITATIONS

- Do not allow repairs to freeze until the material has reached a minimum of 7 MPa compressive strength.
- Do not use as a horizontal topping.
- Do not add admixtures or aggregate extension.
- When necessary, follow the recommendations in ACI 305R “Guide to Hot Weather Concreting” or ACI 306R “Guide to Cold Weather Concreting”.
- Use only potable water for mixing.
- Minimum application thickness 3mm.
- Minimum surface and ambient temperature 7°C and rising at time of application.
- For optimum results. Condition material to 18°C to 26°C at least 24 hours prior to use.
- Do not use a solvent-based curing compound on this product.
- Do not add water to the surface during the finishing operation.
- In all cases, consult the Safety Data Sheet before use.

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