

# W930 Fast Repair™

Repair Mortar

**weco**  
TECHNICAL DATA SHEET

Mortar

**Early-stage, fast-curing, high-strength mortar, formulated with a special selection of cements, aggregates, and additives, for construction and repair work above or below grade. W930 Fast Repair™ has an accelerated compressive strength and complies with the ASTM C-928 Type R3 standard. It is specially formulated for concrete structural repairs in pavements subject to traffic and other horizontal surfaces.**

## USES

- For total or partial below grade structural repairs and construction.
- For patching or repairing concrete highways, roads, bridges, airport pavements, parking lots, dams and other horizontal surfaces.
- For applications that require opening to traffic in 1 hour.
- For industrial and freezer floor applications.

## LIMITATIONS

- Avoid installing during sunlight high temperatures (maximum recommended installation temperature is 75°F). During hot days, use chilled mixing water and follow ACI 305 guidelines on hot weather concrete.
- Protect from strong winds and precipitation.
- Do not install at temperatures under 20°F, during the first three hour from application. Follow ACI 306 procedures for cool weather concrete.
- Do not use any concrete bonding adhesive when applying this product.

## INDUSTRY STANDARDS

Exceeds compressive strength requirements per ASTM C928 Type R3 and ASTM C109.



Meets ASTM C157 shrinkage parameters as modified by ASTM C928.

LEED® Program: MR Credit 5, Regional Materials (up to 2 points)

\*The use of this product can help provide valuable points for LEED (Leadership in Energy and Environmental Design) certification of projects in the categories listed above. Points are awarded based on input from all materials used in the project.

## TECHNICAL DATA

Test Method*	Specification	Results
ASTM C109: Compressive Strength	3,000 psi (20.7 MPa) at 3 hours 5,000 psi (34.5 MPa) at 1 day 5,000 psi (34.5 MPa) at 7 days  *Strength at 28 days should be not less than strength at 7 days.	>4000 psi (17.2 MPa) @ 3 hr >5000 psi (27.6 MPa) @ 1 day >7000 psi (39.3 MPa) @ 7 day >10,000 psi (68.6 MPa) @ 28 days
ASTM C293: Flexural Strength	800 psi (5.5 MPa) at 1 day 1,000 psi (6.9 MPa) at 7 days 1,100 psi (7.6 MPa) at 28 days	>825psi (5.69 MPa) at 1 day >1,000psi (6.9 MPa) at 7 days >1,200 psi (8.27 MPa) at 28 days
ASTM C157: Shrinkage (Modified per ASTM C928)	<0.15% at 28 days	Pass
ASTM C1202/ AASHTO T277: Rapid Chloride Permeability	<600 Coulombs	Pass

\*Product performance properties at 73°F (23°C) and 50% relative humidity.

Product Properties*	
ASTM C266: Set Time	Initial: 12 – 24 minutes Final: 20 – 40 minutes
Working time**	15 minutes (approximately)
Application Temperature	65°F - 75°F (18°C - 24°C)
Shelf life	1 year
VOCs	0 g/L

\* Product performance properties at 73°F (23°C) and 50% relative humidity.

\*\*Working time will vary based on jobsite conditions. Ambient air temperature and substrate temperature should be above 45°F (7°C) and below 90°F (32°C).

## PACKAGING

Product Code	UOM	Color
WE0810901	50 lbs.	Gray

## COVERAGE

Product	Application Thickness	Coverage
As Supplied	1/4" – 1"	Up to 0.43 cu. ft. (approx)
Extended with SSD Gravel (3/8")	1" – 6"	Up to 0.77 cu. ft. (approx)

\*Coverage depends on slump and substrate conditions

## SURFACE PREPARATION

Mechanically eliminate all deteriorated or loose concrete. All surfaces must be in good structural condition, clean and free of any contaminants that can affect product adhesion. Concrete and plaster surfaces must be: porous, fully cured and should not be subjected to hydrostatic pressure. Prepare substrate, exposing the aggregate to obtain a concrete profile of CSP-6 (minimum). Mechanically remove rust and treat steel reinforcement. Saturate application surface leaving no standing water (SSD) prior to product application.

## CONTROL & EXPANSION JOINTS

Follow specification ACI 501 Portland Cement Concrete Pavement. It is highly recommended to saw cut concrete perimeter of application area.

## MIXING

1. Moisten all tools and containers to be used.
2. In a clean mixing container, add approximately 1/2 to 3/4 gallons (2.4 - 2.6 liters) of clean water for each 50 lbs (22.7 kg) bag. Do not over-water.
3. If you require to latex-modify the mix, substitute 1 part of water with WECO® W800+ Durokryl™ for every 5 parts of water (1: 5), observing the total amount of liquid recommended in the previous step.
4. Add W930 Fast Repair™ to clean water and mix slowly until a firm, lump-free, workable, homogeneous plastic consistency is achieved.
5. Prepare only the amount you can use in a 15-minute period, based on your application speed.
6. For applications greater than 1" deep, mix W930 Fast Repair™ mortar with 25 lbs. (11.4 kg) of 3/8" coarse aggregate, per bag. Basalt gravel meeting ASTM C-33 is recommended. Do not use limestone (calcium carbonate).
7. If adding aggregate to the mixture, be sure to maintain a water ratio that does not exceeds a 7" slump.
8. Wash hands and tools with water immediately after mixing.

## APPLICATION

1. Using a broom or scrub cover all surface of application to SSD substrate with the W930 Fast Repair™ mixture.
2. Using a trowel, force mortar over the application area. Finish as desired using a smooth trowel or a wooden float.

## CAUTION

Job failures can occur when applying product during hot weather temperatures (maximum recommended installation temperature is 75°F). Follow ACI 305 guidelines on hot weather concrete, moisture cure concrete and protect from wind during the first 24 hour of application.

## CURING & PROTECTION

Proper curing increases the strength and durability of the mortar. Per ACI recommendations moist curing is required beginning immediately upon application. Spray the surface with water or a compatible curing compound per ASTM C309, or protect with a plastic blanket for the first 24 hours, to avoid cracking by excessive drying of the surface due to wind, rain, frost, sun and hot temperatures. Protect area from traffic for a minimum of 24 hours, depending on temperature and humidity.

## SAFETY

Please refer to the Safety Data Sheet (SDS) for safety data. KEEP OUT OF THE REACH OF CHILDREN.

## LEGAL DISCLAIMER

Before applying this product, customer must read the product information in this Technical Data Sheet to determine its suitability for the intended application. Mixing, application and curing methods, as well as surface and weather conditions, and test methods may affect results and generate statistical variations. This product warranty is limited to its replacement or its refund value should it not comply with the specifications of the manufacturer and does not include any application costs. Customer must present original proof of purchase and submit claim in writing within 15 days from the alleged situation. The information in this Technical Data Sheet supersedes any other product information available from packaging and any other company or marketing documentation. Visit our website at [www.wecopr.com](http://www.wecopr.com) for the most up-to-date official TDS.