

UNISORB CONCRETE REPAIR COMPOUND (UCRC) PRODUCT DATA

UNISORB Concrete Repair Compound (UCRC) is a cement-based, flowable, fast setting product designed for use in setting anchor bolts and filling holes and large cracks in concrete floors, roads, sidewalks, foundations, etc. It is well suited to high traffic wear areas. Edges of repairs can be feathered to blend into the surrounding area.

Packaging/Yields: 50# Pail = 0.40 Cu. Ft. (691 Cu. In.)

UNISORB Concrete Repair Compound (UCRC) is an ideal choice for:

- Industrial filling or patching
- Crack repair
- Anchor setting
- Packaged in a convenient resealable pail

Performance Advantages - UCRC employs special poly reinforcing fibers to achieve exceptional strength and durability. Unlike most cement-based products, UCRC is self-sealing and requires no sealant when used outdoors. This product requires no pre-wetting and can be opened to traffic in 20 minutes to one hour after pouring (depending on weight of traffic). It is also ideal for setting anchor bolts, particularly when short installation times are important, because of its fast setting time.

Surface Preparation - Remove all oil, grease, or contaminated concrete. Scarify concrete surfaces to remove unsound concrete and expose the large aggregate. The area to be repaired should be chipped to a minimum depth of 1/2".

Mixing & Placement - UCRC can be mixed in a wheelbarrow or cement mixer. Only the exact amount needed for a particular project should be mixed, due to its fast setting time. Exact ratios should be followed for mixture of product and water. Mix dry powder with water at job site to form a trowelable mixture. Place in an area to be repaired and trowel to desired finish. Allow to cure.

Temperature Considerations - Use standard high temperature concrete techniques for conditions over 90°F, and low temperature techniques for conditions below 45°F.

Pea Gravel - When exceeding a thickness of 2" to 3", pea gravel should be added. Use 3/8" pea gravel, 1 part pea gravel to 2 parts grout by weight.

UCRC Extended Set - UCRC is also available in an "Extended Set" formulation to allow for longer working time.



UCRC 50# Pails, UCRC (left), UCRC Extended Set (right)

Physical Properties @ 72°F (22°C)

	UCRC	UCRC Extended Set
Compressive Strength (ASTM C-109)		
Water to 100#	6.5 qts.	6.5 qts.
1 hour	2,700 psi	1,500 psi
3 hours	4,000 psi	2,700 psi
1 day	6,200 psi	4,600 psi
7 days	8,400 psi	6,100 psi
28 days	10,100 psi	7,400 psi
Compressive Strength with 50% Pea Gravel Added (ASTM C-39)		
1 day	—	4,300 psi
7 days	—	5,400 psi
28 days	—	6,300 psi
Compressive Strength of Thermal Expansion (ASTM C-531) 7.46 x 10 ⁻⁶ in./in./°F		
Tensile Strength (ASTM C-190)		
7 days	544 psi	—
28 days	564 psi	—
Flexural Strength (ASTM C-348)		
7 days	1,185 psi	—
28 days	1,237 psi	—
Flow (ASTM C-929)	145 (25 drops, 5min.)	—
Vicat Needle Test @ 75°F (ASTM C-191)		
Initial Set	18 min.	33 min.
Final Set	20 min.	37 min.
Bond Strength (ASTM C-882)		
1 day	1,500 psi	1,700 psi
7 days	3,100 psi	2,200 psi
Typical Pour Depth	1/2 in. - 2 in.	1/2 in. - 2 in.

UCRC meets or exceeds the specifications for Scaling Resistance (ASTM C-928), Freeze-Thaw (ASTM C-666), and Rapid Hardening Materials for Concrete Repair (ASTM C-928)

Physical properties shown are the result of independent laboratory testing performed per industry test procedures. Laboratory properties aid in determining suitability of the product for intended application. Field test results may vary due to procedures or ambient conditions such as temperature and humidity. Laboratory reports are available on request.