

# UNISORB® CONCRETE REPAIR COMPOUND (UCRC) UCRC EXTENDED SET



## UNISORB® CONCRETE REPAIR COMPOUND (UCRC)

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.

### 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.

### BASE PREPARATION

All contact surfaces must be cleaned of oil, grease, scale, etc. Unsound concrete should be chipped out leaving the surface level, but rough. The area to be repaired should be chipped to a minimum depth of 1/2".

## PHYSICAL PROPERTIES

	UCRC	UCRC EXTENDED SET
<b>Compressive Strength</b> (CRD C-227/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
<b>Compressive Strength With 50% Gravel Added</b> (ASTM C-39)		
1 day	—	4,300 psi
7 days	—	5,400 psi
28 days	—	6,300 psi
<b>Coefficient of Thermal Expansion</b> (ASTM C-531) 7.46 x 10 <sup>-6</sup> in./in./°F		
<b>Tensile Strength</b> (ASTM C-190)		
7 days	544 psi	—
28 days	564 psi	—
<b>Flexural Strength</b> (ASTM C-348)		
7 days	1,185 psi	—
28 days	1,237 psi	—
<b>Flow</b> (ASTM C-929) 145 (25 drops, 5 min.)		
<b>Vicat Needle Test @ 75° F</b> (ASTM C-191)		
Initial Set	18 min.	33 min.
Final Set	20 min.	37 min.
<b>Bond Strength</b> (ASTM C-882)		
1 day	1,500 psi	1,700 psi
7 days	3,100 psi	2,200 psi

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).

### APPLICATION TECHNIQUES

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 the job site to form a trowelable mixture. Place in area to be repaired and trowel to desired finish. Allow to cure.

### TEMPERATURE CONSIDERATIONS

Use standard high temperature concreting techniques for conditions over 90° F, and low temperature techniques for conditions below 45° F.

### PACKAGING/YIELD

50# Bag = .40 cu. ft. (691 cu. in.)
20# Pail = .16 cu. ft. (276 cu. in.)
50# Pail = .40 cu. ft. (691 cu. in.)

### UCRC EXTENDED SET

UCRC is also available in an "Extended Set" formulation to allow longer work time. (See above chart.)

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

Consult the specific Material Safety Data Sheets (MSDS) for all safety data.