UNIQUE FLEXICRETE® XP

POLYMER MODIFIED MORTAR

COMMERCIAL-GRADE CONCRETE PATCHING MATERIAL




JUST ADD WATER

Single Component - no bonding agents required

Recommended Uses

Use to repair roadways, industrial floors, loading docks, parking garages, curbs, utility cuts, pre-cast & sidewalks.

Product Description

UNIQUE FLEXICRETE® XP Polymer Modified Mortar is an easy to use polymer modified non-shrink/ volume stable trowel grade mortar.

Coverage

10 pounds of **UNIQUE FLEXICRETE** XP Polymer Modified Mortar yields approximately 0.11 cubic foot of finished product when mixed with 28 ounces of potable water. Material will yield about 10 pounds per square foot per 1" thick.

Benefits / Features

- Use from featheredge to 2" deep
- Excellent adhesion to concrete surfaces
- Non-shrink/Volume stable
- Abrasion resistant
- Open to foot traffic in 4-6 hours
- Open to vehicle traffic in 8-12 hours
- Increased freeze-thaw durability and resistance to deicing salts
- Compatible with the thermal expansion of concrete

Shelf Life

Two years if stored in an unopened pail according to ACI Guidelines.

The makers of UPM mix
Unique Paving Materials Corp.

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UNIQUE CONCRETE SOLUTIONS

UNIQUE FLEXICRETE® XP POLYMER MODIFIED MORTAR

UNIQUE FLEXICRETE® XP POLYMER MODIFIED MORTAR TESTING RESULTS

Table 1. Fresh test data (ASTM C1473 & ASTM C403)

Flow (ASTMC C 1473)	>150%
Initial Time of Set (ASTM C403)	316 Min.
Final Time of Set (ASTM 403)	428 Min.

Table 2. Compressive test data (ASTM C109)

Cube Identification	Test Date (Age)	Area, in.^{2}	Load, lb	Compressive Strength, psi	Average Compressive Strength, psi
H-1	June 26, 2015 (1 day)	4.01	4,520	1,102	**1,158**
H-2		4.04	4,720	1,168	
H-3		4.03	4,850	1,230	
H-4	July 2, 2015 (7 days)	4.06	11,460	2,823	**2,810**
H-5		3.98	11,520	2,894	
H-6		4.06	10,990	2,707	
H-7	July 23, 2015 (28 days)	4.03	14,920	3,702	**3,520**
H-8		4.03	13,270	3,293	
H-9		4.03	14,350	3,561	
H-10	Sept. 23, 2015 (90 days)	6.00	17,920	4,414	**4,320**
H-11		4.04	16,880	4,178	
H-12		4.06	17,690	4,357	

Table 3. Slant shear test data (ASTM C882)

Cylinder Test Identification	Test Date (Age)	Elliptical Area, in.^{2}	Load, lb	Compressive Strength, psi	Average Compressive Strength, psi
A	June 26, 2015 (1 day)	14.13	6,000	425	**500**
B		14.13	5,200	368	
C		14.13	10,000	707	
D	July 2, 2015 (7 days)	14.13	26,080	1,846	**1,650**
E		14.13	24,740	1,751	
F		14.13	19,040	1,347	

Table 4. Flexural strength test data (ASTM C293 - Modified)

Specimen Identification	Test Date (Age)	Load, lb	Flexural Strength, psi	Average Flexural Strength, psi
A	June 26, 2015 (1 day)	130	585	**540**
B		110	495	
C		120	540	
D	July 2, 2015 (7 days)	180	810	**765**
E		150	675	
F		180	810	

Table 5. Length change results for continous wet cure, reported as a percentage of the original length (ASTM C157)

Age	Bar 1	Bar 2	Average
28 Days	+0.002	+0.002	**+0.002**
56 Days	+0.004	+0.004	**+0.005**

Notes: The bars were demolded at 24 hours and the initial comparator reading was taken. The bars were then cured in lime water at 73±3°F until the age of 28 days. At the age of 28 days, the bars were then air dried in a room maintained at a temperature of 73±3°F during testing.

Table 6. Length change results for wet plus drycure, reported as a percentage of the original length (ASTM C157).

Age	Bar 1	Bar 2	Bar 3	Average
28 Days (wet)	+0.005	+0.005	+0.005	**+0.005**
56 Days (28 days dry)	-0.105	-0.108	-0.1108	**-0.107**

Notes: The bars were demolded at 24 hours and the initial comparator reading was taken. The bars were then cured in lime water at 73±3°F until the age of 28 days. At the age of 28 days, the bars were then air dried in a room maintained at a temperature of 73±3°F and a relative humidity of 50±4%.

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