

CRL KWIXSET EXTERIOR CEMENT

PREPARATION FOR USE

Pour enough KWIXSET for the job at hand into a clean container. Don't mix more than can be applied in 10 minutes. Setting time may vary depending on the temperature. Gradually add water until the desired consistency is reached.

- **FLUID CONSISTENCY** for pouring requires about 4 fl. oz. (118 ml) of water per pound of KWIXSET. Stir the mix as water is added. Final consistency should be a thick paste similar to pancake batter. If too watery, add more KWIXSET.
- **PLASTIC CONSISTENCY** for troweling requires about 3-1/2 fl. oz. (113.5 ml) of water per pound of KWIXSET. Work the mix to a putty-like firmness, kneading it with the hands if necessary. If too fluid, add KWIXSET sparingly.

APPLICATION/USE

GLASS RAILING/BALUSTRADE INSTALLATION PROCEDURE

1. Insert CRL's rubber setting blocks at the bottom of the base shoe or channel.
2. Ensure all exit points and bolt hole locations are sealed to prevent run out.
3. Insert the glass and locate it on the setting blocks.
4. Insert CRL Cat. No. NWS12 hardwood shims on either side of the glass firmly centering the glass within the base shoe. It's important to insure that a gap is left between adjacent glass panels to avoid breakage if movement occurs.
5. Pour CRL's KWIXSET Cement and allow the base shoe channel to fill ensuring that the void between glass panels is completely filled. Tooling and setting time is 15-20 mins.
6. Consult with your glass fabricator prior to wet setting laminated tempered glass.



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CRL Kwixset™ and Rockite™ Expanding Cements

BASE SHOE RUNNING FEET	CEMENT		WATER		
	POUNDS	VOLUME OZ.	PINTS	FLUID OZ.	MILLILITERS
4 (1.2 m)	5 (2.27 kg)	67.6	1-1/4	20	591.5
8 (2.4 m)	10 (4.54 kg)	135.2	2-1/2	40	1183
12 (3.6 m)	15 (6.80 kg)	202.8	3-3/4	60	1774.5

These mixing proportions are guidelines based on what we feel is the best way to mix and apply cement, and we make no guarantee or warranty to its performance. We suggest you make a sample batch for testing purposes to determine the exact formula that is right for your application before beginning any job.

EXAMPLE #1: For 8 feet (2.4 m) of Base Shoe you need 10 pounds of expanding cement and 40 ounces of water for the correct mix.

EXAMPLE #2: For 12 feet (3.6 m) of Base Shoe you need 6000 milliliters of expanding cement and 1774.5 milliliters of water for the correct mix.

Mixture MUST be measured accurately.

NOTE: Ensure CRL KWIXSET Cement is protected during the 15 minute curing process from rain and/or other contact with water or elements.

ANCHORING EMBEDDED ITEMS IN CONCRETE, STONE, BRICK, TILE OR TERRAZZO

- Drill hole.
- Blow out dust and cuttings.
- Fill hole with water and scrub interior surfaces.
- Wipe out excess water leaving hole damp.
- In floors, position embedded item in hole and pour fluid KWIXSET around it.
- In walls or ceilings, fill hole and pour fluid KWIXSET and press or tamp embedded item into position. If KWIXSET is too fluid and sags, let it stand a few minutes, then smooth with trowel or putty knife.
- Support embedded items until KWIXSET has set (approximately 15-20 minutes).
- Don't put strain on embedded items for an hour.

PATCHING CRACKS AND HOLES IN CONCRETE, STONE, BRICK, TILE OR TERRAZZO

- Remove loose and fractured material in and around void to be patched.
- Chisel edges of void so that no part of KWIXSET patch is less than 1/2 (12.7 mm) inch deep. Feather edges should be avoided.
- Blow chips and dirt out of void. Remove any grease with caustic solution and scrape, if necessary, to provide clean interior surfaces.
- Keep void and surrounding area damp, but avoid water accumulation.
- Place a small amount of KWIXSET in void and scrub it into interior surfaces to insure bond.
- For floors, fill void with fluid consistency KWIXSET. For walls and ceilings, fill void with plastic consistency KWIXSET.
- After about 10 minutes, smooth with trowel.
- After about 30 minutes, sprinkle patch with water, then light traffic may traverse floor patches. After one hour, resume normal traffic.
- For large patching jobs, sand and aggregate may be added per specifications.

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APPROVALS/STANDARDS

KWIXSET EXTERIOR CEMENT meets the following ASTM Designations when used as directed:

- ASTM C 109-01 Compressive Strength of Hydraulic-Cement Mortar
- ASTM C 191-01 Time of setting of Hydraulic-Cement by Vicat Needle
- ASTM C 1107-02 Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
- ASTM E 488-96 Strength of Anchors in Concrete and Masonry Element

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CHARACTERISTICS AND PROPERTIES

RECOMMENDED MIXES: 50 lbs. (22.7 kg) KWIXSET and 1-1/2 gal. (5678 ml) Water	
SETTING TIME:	15-20 minutes
YIELD:	0.45 cu. ft./50 lb. bag
KWIXSET CEMENT REQUIRED:	110.0 cu. ft. of mix
SETTING EXPANSION:	0.20 %
NET EXPANSION AFTER DRYING:	0.125%
REBAR PULLOUT STRENGTH:	
using 3" bar	1260 psi
WET COMPRESSIVE STRENGTH:	
psi 2" Cube Molds, moistcured	
1 hr. after set	4,100
3 hr. after set	4,100
6 hr. after set	5,100
1 day	8,100
3 days	9,300
28 days	10,500
TENSILE STRENGTH(ASTM C190):	
1 hr.	208 psi
3 days	508 psi
7 days	585 psi
28 days	655 psi
RESISTANCE TO FREEZE-THAW CYCLING:	
Excellent	
ABSORPTION:	
8-9% vs. 11-14% for concrete	
SALT ATTACK ABRASION RESISTANCE AT 65 CYCLES:	
.021 rating	

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