



Willamette Valley Company

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Low Temperature EJC-25 Application

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SUMMARY

FastPatch EJC-25 has excellent performance at ambient and substrate temperatures as low as 10°F. Using PolyQuik 1K primer at 10°F gives better adhesion and cohesive failure of material compared to adhesive failure for unprimed. Set time for material does not exceed two hours in any scenario tested. Priming and conditioning material to at least 50°F is recommended for best results.

MATERIALS AND METHODS

FastPatch EJC-25 was dispensed at a 1:1 ratio by volume from cartridges produced by WVCO. Concrete substrates were high quality paving blocks rated at 4,000 PSI compression strength. All concrete blocks were cleaned by sandblasting and oven dried at 70°C prior to usage. PolyQuik 1K primer was brush applied and allowed to cure for 30 minutes; EJC-25 was then dispensed onto the block and allowed to cure overnight before testing adhesion. Adhesion was measured with 20 mm dollies using an AT-A Automatic Adhesion Tester according to ASTM D7234.

RESULTS

Figure 1: Unprimed adhesive failure (193 psi avg.) Figure 2: Primed cohesive failure (203 psi avg.)



Figure 2. EJC-25 Set Times

Material Temp. °F (°C)	Substrate Temp. °F (°C)	Set Time hours
68 (20)	40 (4)	<1
68 (20)	10 (-12)	<1
40 (4)	40 (4)	1.5
40 (4)	10 (-12)	2

Figure 3. EJC-25 Hardness Build at 10°F

