

Maine Department of Transportation Qualified Products List
RAPID-SET CONCRETE PATCHING MATERIALS FOR PORTLAND CEMENT CONCRETE
 Meeting Standard Specification Revision of December 2002, Section 518

Product Name <i>Manufacturer Contact</i>	Description				Min. Temp. (°F)	Compressive Strength @ 7 days (psi)	Minimum Depth Neat	Maximum Depth Extended w/Stone	NTPEP Testing Cycle
		Horizontal	Vertical	Overhead					
CEMENTITIOUS, NON-METALLIC									
Emaco T415 <i>BASF Construction Chemicals (800) 433-9517</i>	1 component, rapid-strength	H	V		20	8000 ⁽¹⁾	½"	not specified	2000
Emaco T430 <i>BASF Construction Chemicals (800) 433-9517</i>	1 component, rapid-strength, extended working time for hot weather	H	V		85	7800	½"	not specified	
Express Repair <i>The Euclid Chemical Co. (800) 321-7628</i>	1 component, migratory corrosion inhibitor, rapid strength gain	H			35	8850 ⁽¹⁾	½"	not specified	2001
Fast Patch 928 <i>Edoco (888) 977-9600</i>	1 component, cementitious, low-shrinkage	H			32	6030 ⁽¹⁾	1"	≥ 2"	2001
Five Star Highway Patch <i>Five Star Products, Inc. (800) 243-2206</i>	1 component, hydraulic cement, resistant to oil, grease, gasoline, salts	H			35	7000	1"	not specified	2001
Five Star Structural Concrete <i>Five Star Products, Inc. (800) 243-2206</i>	1 component, high early strength, low shrinkage	H			35	7000	¼"	12" neat	
Five Star Structural Concrete V/O <i>Five Star Products, Inc. (800) 243-2206</i>	1 component, low chloride permeability		V	O	35	4000	¼"	do not extend with stone	
Five Star Vertical Patch <i>Five Star Products, Inc. (203) 336-7900</i>	1 component, hydraulic cement, chloride ion penetration resistant		V	O	45	> 3500	¼"	do not extend with stone	
Futura-15 <i>W.R. Meadows, Inc. (800) 342-5976</i>	1 component, chloride free, low permeability, very rapid-hardening	H			20	8500	½"	> 4"	
Highway DB Retrofit Mortar <i>American Highway Technology (888) 745-3751</i>	1 component, high-early strength, freeze-thaw resistant	H			40	7570 ⁽¹⁾	½"	> 2"	2000
Pave Patch 3000 <i>Conspec (877) 416-3439</i>	1 component, resists freeze-thaw, high compressive strength	H			32	7390 ⁽¹⁾	1"		1998
Pavemend 15.0 <i>CeraTech, Inc. (800) 581-8397</i>	1 component, self-leveling, water activated	H			30	5570	0.06"	no restrictions neat	
SikaQuick 1000** <i>Sika Corporation (800) 933-7452</i>	1 component, high early strength, extended working time	H			45	5000	¼"	6"	
SikaQuick 2500 <i>Sika Corporation (800) 933-7452</i>	1 component, early strength, cementitious	H			45	5800 ⁽¹⁾	¼"	6"	2002
Tamms Structural Mortar <i>The Euclid Chemical Co. (800) 321-7628</i>	1 component, sprayable, fiber-reinforced, corrosion inhibitor, silica fume enhanced		V	O	40	6200	3/8"	do not extend with stone	
V.O. Repair Mortar <i>ProSpec (800) 738-1621</i>	1 component, hydraulic cement mortar, corrosion inhibitor		V	O	40	4000	OH: ½" lifts		
POLYMER MODIFIED AND SPECIAL CEMENTS, MORTARS AND CONCRETE									
BlendCrete <i>ProSpec (800) 738-1621</i>	1 component, cementitious, corrosion inhibitor	H	V	O	40	5845	½"	> 2"	
Commercial Grade FastSet DOT Mix <i>The Quikrete Companies (404) 634-9100</i>	1 component, fiber-reinforced, de-icing chemical resistant	H			40	8000	½"	24"	2006
Commercial Grade FastSet Non-Shrink Grout <i>The Quikrete Companies (404) 634-9100</i>	1 component, high early strength, low-sag	H			50	9150 ⁽¹⁾	¼"	24"	2000
CR701CI Sto Trowel Grade Mortar W/CI <i>Sto Corp. (800) 221-2397</i>	1 component, cement-based, integral corrosion inhibitor	H	V		45	7000	¼"	check with manufacturer	
CR702CI Sto Overhead Mortar with CI <i>Sto Corp. (800) 221-2397</i>	1 component, integral corrosion inhibitor, polymer-modified, cement-based		V	O	45	> 5000	¼"	do not extend with stone	

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POLYMER MODIFIED AND SPECIAL CEMENTS, MORTARS AND CONCRETE									
CR730 STO Flowable Mortar <i>Sto Corp. (800) 221-2397</i>	flowable, pumpable, acrylic polymer-modified, cementitious, 1 component	H			45	5000	½"	check with manufacturer	
D.O.T. Patch HD <i>Symons (877) 854-0643</i>	polymer-modified, 1 component, cement-based		V	O	10 [†]	7370	½"	check with manufacturer	
Emaco S88 CI <i>BASF Construction Chemicals (800) 433-9517</i>	1 component, silica fume, fiber-reinforced, integral corrosion inhibitor		V	O	40	8000	¾"	do not extend with stone	
Fastcrete <i>Silpro Corporation (800) 343-1501</i>	1 component, cementitious, polymer-modified, fiber-reinforced	H			> 50	7500 (28 days)	1/8"	¾" - 3"	
HD-25 <i>Dayton Superior Corp. (888) 977-9600</i>	1 component, accelerators, bonding agents		V	O	40	4900	¼"	> 2"	
HD-50 <i>Dayton Superior Corp. (888) 977-9600</i>	1 component, fiber reinforced, latex modified, non-metallic, chloride free	H			10 [†]	7370	½"	> 2"	1998
Rapid Set Concrete Mix* <i>CTS Cement Mfg. Corp. (800) 929-3030</i>	1 component, hydraulic cement, aggregate, non-metallic, no chlorides	H			45	5380 ⁽¹⁾	> 2"		2006
Rapid Set DOT Repair Mortar* <i>CTS Cement Mfg. Corp. (800) 929-3030</i>	1 component, air-entrained specialty mortar, no chlorides added	H	V	O	5	8550 ⁽¹⁾	> ¾"	> ¾"	1999
Sikatop 122 Plus <i>Sika Corporation (800) 933-7452</i>	2 component, cementitious, corrosion inhibitor	H	V		45	5500	1/8"	4"/lift	
Sikatop 123 Plus <i>Sika Corporation (800) 933-7452</i>	2 component, cementitious, corrosion inhibitor	H	V	O	45	5050 ⁽¹⁾	1/8"		2002
Tamms Form and Pour Mortar <i>The Euclid Chemical Co. (800) 321-7628</i>	1 component, flowable, shrinkage-compensated, corrosion inhibitor	H	V	O	40	6500	¾"	3"	
TechCrete R <i>Crafco, Inc. (800) 528-8242</i>	flexible, hot-applied,	H			40		max ¾"		
TechCrete TBR <i>Crafco, Inc. (800) 528-8242</i>	flexible, hot-applied	H			40		max 8"		
Verticoat Supreme <i>The Euclid Chemical Co. (800) 321-7628</i>	1 component, microsilica and latex, non-sag, integral corrosion inhibitor		V	O	45	5500	¼"	do not extend with stone	
VO Patch <i>Silpro Corporation (800) 343-1501</i>	1 component, cementitious, polymer-modified		V	O	> 50	4000	¼"	4"	
MAGNESIUM PHOSPHATE CEMENT-BASED MATERIALS									
Euco-Speed MP <i>The Euclid Chemical Co. (800) 321-7628</i>	1 component, magnesium phosphate-based, concrete repair material	H	V		0 (85° max)	4060 ⁽¹⁾	½"	8"	1998
Set 45 <i>BASF Construction Chemicals (800) 433-9517</i>	1 component, magnesium phosphate-based, repair & anchoring material	H	V	O	20	> 7000	½"	use Set 45 HW	2001
Set 45 HW for hot weather <i>BASF Construction Chemicals (800) 433-9517</i>	1 component, magnesium phosphate-based, repair & anchoring material	H	V	O	85	> 7000	½"	see manufacturers instructions	
POLYMER MORTAR AND CONCRETE									
Transpo T 17 Polymer Concrete <i>Transpo Industries, Inc. (914) 636-9400</i>	2 component, low viscosity, 100% reactive, methyl methacrylate polymer	H				7530 ⁽¹⁾	½"		2004

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NOTE: Before using any non-cementitious product on a concrete bridge deck that may be overlaid with an epoxy surfacing system, check with manufacturer for any possible future de-bonding issues.

* Add CTS Concrete Pharmacy's "BOND" latex polymer bonding additive at the manufacturer's prescribed rates to enhance performance by increasing bond, strength, and reducing porosity.

**Conditionally pre-qualified, pending satisfactory performance in the field, for use as a concrete patching mortar.
Extend with stone for deep repairs and form according to manufacturer's directions.

† Provided manufacturer's cold weather instructions are followed.

‡ These products can only be used on projects with prior approval from the Product Approval Committee. After 2 years of satisfactory performance in the field, these products will be added to the prequalified list for patching materials. Contact Doug Gayne at (207) 624-3268 for specific questions on the use of products listed above.

⁽¹⁾ Neat, as tested by NTPEP.

NOTE: Whenever possible, the minimum 7 day compressive strength of the patching material should be equal to or greater than the compressive strength of the substrate, if known. Consult the latest NTPEP Report for 7 day strengths of patching material if in doubt. Check with manufacturers for information on extending materials with aggregate.

Sales Representatives seeking approval of a new product should submit their product's Materials Technical Data Sheet, Instructions for Installation, Material Safety Data Sheet, and a completed copy of the MaineDOT Preliminary Information for Product Evaluation Form. Please view Rapid Set Patching Material Prequalification Criteria on the Approved Products List home page for acceptance criteria.

NTPEP is the National Transportation Product Evaluation Program, a part of AASHTO. NTPEP regularly evaluates the performance of patching materials that have been voluntarily submitted by manufacturers and then publishes those test results to member Departments as an aid in product selection. Manufacturers/vendors are encouraged to contact NTPEP to get more information on how they can submit their products , and positive test results may be a requirement for admission to the Approved Products List in the future. For more information visit NTPEP on the web at: www.ntpep.org

Users of these products are encouraged to fill-out and submit a Product Evaluation Report Form. Please take a moment to fill out the form and let us know what you think of new or previously approved products that you have used on a project. The Research Division will monitor how products perform over time. If an existing product, it may either reinforce its place on the Approved Products List or precipitate its removal...

We need and appreciate your feedback to help make this program effective!