

# Concrete Repair Materials

Material Producer List  
Materials and Tests Division

## Concrete Repair Materials

The following grout and mortar products have been pre-qualified according to DMS-4655, "Concrete Repair Materials."

The Department reserves the right to conduct random sampling of pre-qualified materials for testing and to perform random audits of test reports. Department representatives may sample material from the manufacturing plant, the project site, and the warehouse. The Department's Materials and Tests Division (MTD) reserves the right to test samples to verify compliance with DMS-4655.

Approval and use of the materials listed are limited to the condition under which they were evaluated (neat or extended) by the MTD Concrete Laboratory. Use the listed values for the coefficient of thermal expansion and modulus of elasticity as an aid in choosing the repair material that most closely resembles the original material of the structure being repaired. See product-specific documentation for proportioning, mixing, placement, and curing instructions.

For more information, contact the Materials & Tests Division's Rigid Pavements and Concrete Materials Section at (512) 484-6484.

**Table 1: Type A – Rapid Materials**

Producer	Product	Neat or Extended <sup>1,2</sup>	Coefficient of Thermal Expansion (μ-strain/°F)	Modulus of Elasticity (ksi)
Aquafin Inc.	Pavement DOTLine	Extended <sup>4</sup>	6.9	5,900
	Pavemend SL	Neat	7.0	4,650
<b>ARDEX</b>	<b>TRM</b>	Neat	8.6	5,700
CTS Cement Manufacturing Corp.	Rapid Set Cement	Extended <sup>3</sup>	6.5	4,750
	Rapid Set Cement All	Neat	7.5	3,800
	Rapid Set Cement All Plus	Neat	8.0	3,650
	Rapid Set Concrete Mix	Extended <sup>4</sup>	7.1	3,300
	<del>Rapid Set DOT Concrete Mix</del>	Extended <sup>4</sup>	N/A <sup>5</sup>	3,650
	Rapid Set DOT Repair Mix	Extended <sup>3</sup>	7.4	5,500
	Rapid Set Low P Cement	Extended <sup>3</sup>	N/A <sup>5</sup>	4,800
	Rapid Set Mortar Mix Plus	Neat	6.8	2,650
	<del>Rapid Set V/O Repair Mix</del>	Neat	7.9	3,000
Euclid Chemical	Euco Repair SCC Fast	Extended <sup>4</sup>	7.1	6,300
	Versaspeed RMC	Extended <sup>4</sup>	6.7	5,200

**Table 1: Type A – Rapid Materials**

Producer	Product	Neat or Extended <sup>1,2</sup>	Coefficient of Thermal Expansion (μ-strain/°F)	Modulus of Elasticity (ksi)
H.B. Fuller Construction Adhesives	Premium Patch 300	Neat	8.0	3,650
	Premium Patch 300	Extended	7.7	3,550
Lyons Manufacturing, Inc.	Lyons PaveQuick HR	Neat	6.7	4,900
	<del>Lyons PaveQuick HR</del>	Extended <sup>3</sup>	6.0	4,750
Mapei	Planitop 18ES	Neat	6.4	3,700
	Planitop 18ES	Extended <sup>3</sup>	6.4	4,300
	<del>Planitop 18TG</del>	Neat	8.5	5,100
	<del>Planitop 18TG</del>	Extended <sup>3</sup>	7.5	6,100
	Planitop FD	Neat	6.6	4,500
	Planitop FD	Extended	6.8	5,350
	<del>Planitop X</del>	Neat	5.9	3,100
Performance Cement Systems, LLC	PCS Highway Repair	Extended <sup>4</sup>	6.1	4,250
Phoscrete Corporation	Phoscrete F1-HC	Neat	2.4	3,700
	Phoscrete F3-HC	Neat	5.7	2,950
<del>Redi-Mix, LLC / Custom-Crete</del>	<del>QuadraSet</del>	Extended <sup>4</sup>	5.1	5,850
The Quikrete Companies, LLC	FastSet Concrete Mix	Extended <sup>4</sup>	6.8	3,650
	<del>FastSet DOT Mix Extended</del>	Extended <sup>4</sup>	5.9	4,000
	<del>Rapid Road Repair – CA</del>	Extended <sup>4</sup>	6.4	4,900
Sakrete	Pro-Mix Accelerated Concrete Mix	Extended <sup>4</sup>	6.3	4,950
	Pro-Mix All-Purpose Cement Mix	Neat	6.7	3,800

**Table 1: Type A – Rapid Materials**

Producer	Product	Neat or Extended <sup>1,2</sup>	Coefficient of Thermal Expansion (μ-strain/°F)	Modulus of Elasticity (ksi)
Sika	<del>Sikacrete 421 CI Rapid</del>	Extended <sup>4</sup>	6.8	5,950
	SikaQuick 1000	Neat	6.7	4,500
	<del>SikaQuick VOH</del>	Neat	7.1	N/A <sup>5</sup>
	<del>SikaEmaco 1060EX</del>	Extended <sup>4</sup>	7.5	7,050
	SikaEmaco 1061EX	Extended <sup>4</sup>	6.9	7150
SpecChem, LLC	RepCon 928	Neat	6.7	4,900
	<del>RepCon 928</del>	Extended <sup>3</sup>	6.0	4,750
Texas Polymer Systems TuffTex Materials	Highway Patch	Extended <sup>4</sup>	7.4	3,350
	LightningCrete	Extended <sup>4</sup>	7.4	5,250
US Spec	Transpatch	Extended <sup>3</sup>	7.3	3,450
	<del>Transpatch Concrete</del>	Extended <sup>4</sup>	6.5	4,050
	SC Concrete	Extended <sup>4</sup>	6.0	3,750
	STR Mortar	Extended <sup>3</sup>	6.3	5,150
	STR Mortar	Neat	7.1	4,800
<del>W.R. Meadows</del>	<del>Futura 45 Extended</del>	Extended <sup>4</sup>	5.4	4,200
Western Materials	<del>FasTrac 220FQ</del>	Extended <sup>4</sup>	5.6	5,000
	<del>FasTrac 246</del>	Extended <sup>4</sup>	5.4	4,200
	FasTrac 246 SCC Concrete	Extended <sup>4</sup>	5.5	5,100
	FasTrac 300	Extended <sup>3</sup>	5.1	5,350
	<del>FasTrac 400</del>	Extended <sup>3</sup>	4.3	6,000

1. See DMS-4655 for the definitions of neat and extended.
2. Approval and use of the materials listed are limited to the condition under which they were evaluated (neat or extended) by the MTD Concrete Laboratory.
3. Material extended with producer provided aggregates during mixing.
4. Material pre-packaged with coarse aggregates.
5. Data is currently unavailable.

**Table 2: Type B – Ultra-Rapid Repair Materials**

Producer	Product	Neat or Extended <sup>1,2</sup>	Coefficient of Thermal Expansion (μ-strain/°F)	Modulus of Elasticity (ksi)
Adhesives Technology Corp.	Crackbond Jet Patch	Neat	6.7	5,100
	Crackbond Jet Patch	Extended <sup>3</sup>	7.1	4,750
AquaFin Inc.	Pavemend DOTline	Extended <sup>4</sup>	6.9	5,900
	Pavemend SL	Neat	7.0	4,650
CTS	Rapid Set Cement	Extended <sup>3</sup>	6.5	4,750
	Rapid Set Cement All	Neat	7.5	3,800
	Rapid Set DOT Concrete Mix	Extended <sup>4</sup>	N/A <sup>5</sup>	3,650
	Rapid Set DOT Repair Mix	Extended <sup>3</sup>	7.4	5,500
	Rapid Set Low P Cement	Extended <sup>3</sup>	N/A <sup>5</sup>	4,800
	Rapid Set Mortar Mix Plus	Neat	6.8	2,650
Lyons Manufacturing Inc.	Lyons PaveQuick HR	Neat	6.7	4,900
Mapei	Planitop 18ES	Extended <sup>3</sup>	6.4	4,300
	Planitop 18TG	Neat	8.5	5,100
	Planitop 18TG	Extended <sup>3</sup>	7.5	6,100
The Quikrete Companies, Inc.	Commercial Grade FastSet DOT Mix	Neat	6.2	4,300
	FastSet DOT Mix Extended	Extended <sup>4</sup>	7.5	4,000
	Rapid Road Repair – CA	Neat	7.1	4,700
Sika	SikaCrete 421 CI Rapid	Extended <sup>4</sup>	6.8	5,950
	SikaEmaco 1060EX	Extended <sup>4</sup>	7.5	7,050
SpecChem, LLC	RepCon 928	Neat	6.7	4,900
US Spec	Transpatch	Extended <sup>3</sup>	7.3	3,450
	Transpatch Concrete	Extended <sup>4</sup>	6.5	4,050
	STR Mortar	Extended <sup>3</sup>	6.3	5,150
	STR Mortar	Neat	7.1	4,800
W.R. Meadows	Futura 45-Extended	Extended <sup>4</sup>	5.4	4,200
Western Materials	FasTrac 246	Extended <sup>4</sup>	5.4	4,200

**Table 2: Type B – Ultra-Rapid Repair Materials**

<b>Producer</b>	<b>Product</b>	<b>Neat or Extended<sup>1,2</sup></b>	<b>Coefficient of Thermal Expansion (μ-strain/°F)</b>	<b>Modulus of Elasticity (ksi)</b>
Western Materials	FasTrac 400	Extended <sup>4</sup>	4.3	6,000
<ol style="list-style-type: none"><li>1. See DMS-4655 for the definitions of neat and extended.</li><li>2. Approval and use of the materials listed are limited to the condition under which they were evaluated (neat or extended) by the MTD Concrete Laboratory.</li><li>3. Material extended with producer provided aggregates during mixing.</li><li>4. Material pre-packaged with coarse aggregates.</li><li>5. Data is currently unavailable.</li></ol>				

**Table 3: Type C – Vertical and Overhead Repair Materials**

Producer	Product	Neat or Extended <sup>1,2</sup>	Coefficient of Thermal Expansion (μ-strain/°F)	Modulus of Elasticity (ksi)
Cornerstone Construction Materials, LLC	FasTrac VO	Neat	7.3	3,400
CTS Cement Manufacturing Corp.	Rapid Set V/O Repair	Neat	7.9	3,000
	<del>Rapid Set Mortar Mix Plus</del>	Neat	6.8	2,650
Mapei	Planitop 23	Neat	7.5	3,350
	Planitop X	Neat	5.9	3,100
	Planitop XS	Neat	6.5	3,150
Performance Cement Systems, LLC	PCS-VOH	Neat	8.4	3,300
Phocrete Corporation	Phocrete F3-VO	Neat	5.7	2,450
Quadex, LLC	GeoKrete Geopolymer Mortar	Neat	5.5	5,950
Sika	Sikacem 103F	Neat	8.5	4,750
	SikaQuick VOH	Neat	7.1	N/A <sup>5</sup>
	<del>SikaEmaco 488 CI</del>	Neat	9.9	4,950
	MonoTop-4500 Geo Hybrid	Neat	8.2	5,600
TuffTex Materials	RepPatch VOH-XL	Neat	8.5	2,600
US Spec	Quickset	Neat	7.2	2,600
W.R. Meadows	Meadowcrete GPS DOT	Neat	6.4	2,850

1. See DMS-4655 for the definitions of neat and extended.
2. Approval and use of the materials listed are limited to the condition under which they were evaluated (neat or extended) by the MTD Concrete Laboratory.
3. Material extended with producer provided aggregates during mixing.
4. Material pre-packaged with coarse aggregates.
5. Data is currently unavailable.

**Table 4: Type D – Standard Repair Materials**

Producer	Product	Neat or Extended <sup>1,2</sup>	Coefficient of Thermal Expansion (μ-strain/°F)	Modulus of Elasticity (ksi)
Euclid Chemical	Euco Repair SCC	Extended <sup>4</sup>	8.3	5,500
Mapei	Planitop 11 SCC	Extended <sup>4</sup>	8.0	3,400
	<del>Planitop 12 SR</del>	Neat	8.3	4,500
	<del>Planitop 15</del>	Neat	9.3	4,600
	Planitop 15	Extended <sup>3</sup>	8.4	4,750
Quadex, LLC	GeoKrete Geopolymer Mortar	Neat	5.5	5,950
<del>The Quikrete Companies, LLC</del>	<del>Form &amp; Pour MS Concrete Mix</del>	Extended <sup>4</sup>	7.3	4,500
Sika	SikaCrete 100 CI	Extended <sup>4</sup>	6.0	4,850
	SikaEmaco S 466	Extended <sup>4</sup>	8.3	6,100
	<del>SikaEmaco 440 MC</del>	Neat	6.7	5,000
	<del>Sikacrete 211 SCC Plus</del>	Extended <sup>4</sup>	6.1	5,950
	<del>Sikacrete 360 SCC</del>	Extended <sup>4</sup>	5.7	5,050
<ol style="list-style-type: none"> <li>1. See DMS-4655 for the definitions of neat and extended.</li> <li>2. Approval and use of the materials listed are limited to the condition under which they were evaluated (neat or extended) by the MTD Concrete Laboratory.</li> <li>3. Material extended with producer provided aggregates during mixing.</li> <li>4. Material pre-packaged with coarse aggregates.</li> <li>5. Data is currently unavailable.</li> </ol>				