

Concrete Repair Materials

Material Producer List
Materials and Tests Division



Texas Department of Transportation

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 ^{1,2} | Coefficient of Thermal Expansion (μ-strain/°F) | Modulus of Elasticity (ksi) |
|------------------------------------|--------------------------|---------------------------------|--|-----------------------------|
| Aquafin Inc. | Pavement DOTLine | Extended ⁴ | 6.9 | 5,900 |
| | Pavemend SL | Neat | 7.0 | 4,650 |
| CTS Cement Manufacturing Corp. | Rapid Set Cement | Extended ³ | 6.5 | 4,750 |
| | Rapid Set Cement All | Neat | 7.5 | 3,800 |
| | Rapid Set Concrete Mix | Extended ⁴ | 7.1 | 3,300 |
| | Rapid Set DOT Repair Mix | Extended ³ | 7.4 | 5,500 |
| | Rapid Set Low P Cement | Extended ³ | N/A ⁵ | 4,800 |
| Euclid Chemical | Euco Repair SCC Fast | Extended ⁴ | 7.1 | 6,300 |
| | Versaspeed RMC | Extended ⁴ | 6.7 | 5,200 |
| GCC | GCC Rapid Set Cement | Extended ³ | 5.4 | 5,250 |
| 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 |

Table 1: Type A – Rapid Materials

| Producer | Product | Neat or Extended ^{1,2} | Coefficient of Thermal Expansion (μ-strain/°F) | Modulus of Elasticity (ksi) |
|---------------------------------|----------------------------------|---------------------------------|--|-----------------------------|
| Mapei | Planitop 18ES | Neat | 6.4 | 3,700 |
| | Planitop 18ES | Extended ³ | 6.4 | 4,300 |
| | Planitop FD | Neat | 6.6 | 4,500 |
| | Planitop FD | Extended | 6.8 | 5,350 |
| Performance Cement Systems, LLC | PCS Highway Repair | Extended ⁴ | 6.1 | 4,250 |
| Phoscrete Corporation | Phoscrete F1-HC | Neat | 2.4 | 3,700 |
| | Phoscrete F3-HC | Neat | 5.7 | 2,950 |
| The Quikrete Companies, LLC | FastSet Concrete Mix | Extended ⁴ | 6.8 | 3,650 |
| Sakrete | Pro-Mix Accelerated Concrete Mix | Extended ⁴ | 6.3 | 4,950 |
| | Pro-Mix All-Purpose Cement Mix | Neat | 6.7 | 3,800 |
| Sika | Sikacrete 421 CI Rapid | Extended ⁴ | 6.8 | 5,950 |
| | SikaQuick 1000 | Neat | 6.7 | 4,500 |
| | SikaEmaco 1061EX | Extended ⁴ | 6.9 | 7150 |
| SpecChem, LLC | RepCon 928 | Neat | 6.7 | 4,900 |
| TuffTex Materials | Highway Patch | Extended ⁴ | 7.4 | 3,350 |
| | LightningCrete | Extended ⁴ | 7.4 | 5,250 |
| US Spec | Transpatch | Extended ³ | 7.3 | 3,450 |
| | SC Concrete | Extended ⁴ | 6.0 | 3,750 |
| | STR Mortar | Extended ³ | 6.3 | 5,150 |
| | STR Mortar | Neat | 7.1 | 4,800 |
| Western Materials | FasTrac 246 SCC Concrete | Extended ⁴ | 5.5 | 5,100 |
| | FasTrac 300 | Extended ³ | 5.1 | 5,350 |

Table 1: Type A – Rapid Materials

| Producer | Product | Neat or Extended ^{1,2} | Coefficient of Thermal Expansion (μ-strain/°F) | Modulus of Elasticity (ksi) |
|--|---------|---------------------------------|--|-----------------------------|
| <ol style="list-style-type: none">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 ^{1,2} | 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 ³ | 7.1 | 4,750 |
| CTS | Rapid Set DOT Concrete Mix | Extended ⁴ | N/A ⁵ | 3,650 |
| Mapei | Planitop 18TG | Neat | 8.5 | 5,100 |
| | Planitop 18TG | Extended ³ | 7.5 | 6,100 |
| The Quikrete Companies, Inc. | Commercial Grade FastSet DOT Mix | Neat | 6.2 | 4,300 |
| | FastSet DOT Mix Extended | Extended ⁴ | 7.5 | 4,000 |
| Sika | SikaEmaco 1060EX | Extended ⁴ | 7.5 | 7,050 |
| US Spec | Transpatch Concrete | Extended ⁴ | 6.5 | 4,050 |
| Western Materials | FasTrac 246 | Extended ⁴ | 5.4 | 4,200 |
| Western Materials | FasTrac 400 | Extended ⁴ | 4.3 | 6,000 |
| <ol style="list-style-type: none"> 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 3: Type C – Vertical and Overhead Repair Materials

| Producer | Product | Neat or Extended ^{1,2} | Coefficient of Thermal Expansion (μ-strain/°F) | Modulus of Elasticity (ksi) |
|------------------------------------|---------------------------|---------------------------------|--|-----------------------------|
| CTS Cement Manufacturing Corp. | Rapid Set V/O Repair | Neat | 7.9 | 3,000 |
| | Rapid Set Mortar Mix Plus | Neat | 6.8 | 2,650 |
| | Rapid Set Cement All Plus | Neat | 7.9 | 3,950 |
| H.B. Fuller Construction Adhesives | ProSpec BlendCrete | Neat | 6.2 | 2,300 |
| Kaufman Products, Inc. | Duracrete II VOFT | Neat | 6.9 | 3,150 |
| Mapei | Planitop 23 | Neat | 7.5 | 3,350 |
| | Planitop X | Neat | 5.9 | 3,100 |
| | Planitop XS | Neat | 6.5 | 3,150 |
| Phoscrete Corporation | Phoscrete F3-VO | Neat | 5.7 | 2,450 |
| Sika | SikaQuick VOH | Neat | 7.1 | N/A ⁵ |
| | MonoTop-4500 Geo Hybrid | Neat | 8.2 | 5,600 |
| SpecChem | RepCon V/O | Neat | 7.1 | 4,300 |
| 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 ^{1,2} | Coefficient of Thermal Expansion (μ-strain/°F) | Modulus of Elasticity (ksi) |
|--|----------------------------|---------------------------------|--|-----------------------------|
| Euclid Chemical | Euco Repair SCC | Extended ⁴ | 8.3 | 5,500 |
| Mapei | Planitop 11 SCC | Extended ⁴ | 8.0 | 3,400 |
| | Planitop 15 | Extended ³ | 8.4 | 4,750 |
| Quadex, LLC | GeoKrete Geopolymer Mortar | Neat | 5.5 | 5,950 |
| Sika | SikaCrete 100 CI | Extended ⁴ | 6.0 | 4,850 |
| | SikaEmaco S 466 | Extended ⁴ | 8.3 | 6,100 |
| | Sikacrete 211 SCC Plus | Extended ⁴ | 6.1 | 5,950 |
| | Sikacrete 360 SCC | Extended ⁴ | 5.7 | 5,050 |
| <ol style="list-style-type: none"> 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. | | | | |