



# CPD® CONSTRUCTION PRODUCTS GUIDE TO CEMENTITIOUS REPAIR PRODUCTS

|  | FASTCRETE H.S.   | FASTCRETE ULTRA   | RAPIDCRETE   | RAPIDCRETE (FIBER GRADE)   | 20 MINUTE SET  | TOPCRETE   | TOPCRETE SL  | AQUACRETE   | SUPERPLUG   |
|---|--|---|--|--|--|--|--|---|---|
| <b>MAJOR USES &amp; FEATURES</b>  | <ul style="list-style-type: none"> <li>- Fast setting one- component hydraulic cement</li> <li>- Non-sag consistency for use on vertical &amp; overhead repairs</li> <li>- Parking deck soffits, balconies, building envelopes, sewer pipes</li> </ul> | <ul style="list-style-type: none"> <li>- Fast setting two-component Polymer modified hydraulic cement</li> <li>- Non-sag consistency for use on vertical &amp; overhead concrete repairs</li> <li>- Bridges, parking deck soffits, balconies, building envelopes</li> <li>- MTO Approved</li> </ul> | <ul style="list-style-type: none"> <li>- Fast setting, high strength patching material</li> <li>- Vehicular traffic in 2 hours @ 23°C</li> <li>- Concrete floors in factories, warehouses, parking decks, bridge decks</li> <li>- MTO Approved</li> </ul>  | <ul style="list-style-type: none"> <li>- Fast setting, high strength patching material</li> <li>-Non-sag consistency for use on vertical &amp; horizontal concrete repairs</li> <li>- Sloped concrete floors/ramps, concrete walls, manholes, balconies, parking garage decks, bridge decks</li> </ul> | <ul style="list-style-type: none"> <li>- Fast setting, high strength patching material</li> <li>- Non-sag consistency for use on vertical &amp; horizontal concrete repairs</li> <li>- Concrete floors, concrete walls, curbs &amp; gutters</li> </ul> | <ul style="list-style-type: none"> <li>- Polymer modified material for thin patching</li> <li>- Resistant to traffic &amp; exterior weathering</li> <li>- Concrete floors, honeycombs, sills, beams</li> </ul> | <ul style="list-style-type: none"> <li>- Self-leveling Portland Cement underlayment for <u>interior use only</u></li> <li>- Rapid setting, high strength <u>must use P-6842 Primer</u></li> <li>- Resurface rough or uneven substrates</li> <li>- Concrete floors, wooden floors, quarry/ceramic tile, terrazzo</li> </ul> | <ul style="list-style-type: none"> <li>- Fast setting, high strength hydraulic cement</li> <li>- Underwater concrete repairs, sewer pipes, pilings, manholes, dams</li> </ul> | <ul style="list-style-type: none"> <li>- Fast setting hydraulic cement based plug for sealing joints &amp; cracks in concrete</li> <li>- Patching cracks that have running water, filling tie rod holes, sewage &amp; water pipe repairs</li> </ul> |
| <b>TEMPERATURE LIMITATIONS</b>  | Not for use below 5°C (40°F)   | Not for use below 5°C (40°F)  | Not for use below 0°C (32°F)   | Not for use below 0°C (32°F)   | Not for use below 5°C (40°F)   | Not for use below 5°C (40°F)   | 7°C (45°F)   | Not for use below 5°C (40°F)<br>Not recommended for out-of-water applications   | Not for use below 0°C (32°F)  |
| <b>HORIZONTAL</b>   | YES  | YES   | YES  | YES  | YES  | YES  | YES  | YES   | YES   |
| <b>VERTICAL</b>   | YES  | YES   | NO   | YES  | YES  | YES  | NO   | YES   | YES   |
| <b>OVERHEAD</b>   | YES  | YES   | NO   | NO   | NO   | NO   | NO   | YES   | YES   |
| <b>MINIMUM THICKNESS</b>  | 1/2" (13 mm)   | 1/8" (3 mm)   | 1/2" (13 mm)   | ¼" (6mm)   | ¼" (6mm)   | 1/8" (3 mm)  | 0" (0mm)   | ¼" (6mm)  | ¾" (10mm)   |
| <b>MAXIMUM PATCH THICKNESS</b>  | 2" (50 mm)   | 1-1/2" (38 mm) per lift 3" (75mm) (max.)  | Greater than 1 ¼" (30mm), (extend with 3/8" (10mm) pea gravel 100% by weight or loose volume) Greater than 6" (150mm) consult CPD  | Greater than 1 ¼" (30mm), (extend with 3/8" (10mm) pea gravel 100% by weight or loose volume) Greater than 6" (150mm) consult CPD  | Greater than 2" (50mm), extend with 3/8" (10mm) pea gravel 50% by weight or loose volume   | ½" (13 mm)   | Greater than 1 ¼" (30mm) extend with 3/8"(10 mm pea gravel) or 3/8"-1/4" (6-10mm) Angular Aggregate or #24 Silica Sand   | 4" (100 mm) (maximum placed in lifts)   | 4" (100 mm)   |
| <b>POURABLE</b>   | NO   | NO  | YES  | NO   | NO   | NO   | YES  | NO  | NO  |
| <b>TROWELABLE</b>   | YES  | YES   | YES  | YES  | YES  | YES  | YES  | NO  | NO  |
| <b>SURFACE PREP</b>   | <ul style="list-style-type: none"> <li>- Sound, damp</li> <li>- Slurry bond coat of diluted CPD Concentrated Latex</li> </ul>  | <ul style="list-style-type: none"> <li>- Sound, damp</li> <li>- Slurry bond coat of Fastcrete Ultra powder and liquid polymer</li> </ul>  | <ul style="list-style-type: none"> <li>- Sound, damp</li> <li>- Substrate above 10° C (50° F) use slurry coat of Rapidcrete and diluted CPD Concentrated Latex</li> <li>- Substrate below 10° C (50° F) use slurry coat of Rapidcrete and water</li> </ul> | <ul style="list-style-type: none"> <li>- Sound, damp</li> <li>- Substrate above 10° C (50° F) use slurry coat of Rapidcrete (F.G.) and diluted CPD Concentrated Latex</li> <li>- Substrate below 10° C (50° F) use slurry coat of Rapidcrete (F.G.) and water</li> </ul>                               | <ul style="list-style-type: none"> <li>- Sound, damp</li> <li>- Slurry bond coat of 20 Minute Set</li> </ul>   | <ul style="list-style-type: none"> <li>- Sound, damp</li> <li>- Slurry bond coat of Topcrete and diluted CPD Concentrated Latex Adhesive</li> </ul>  | <ul style="list-style-type: none"> <li>- Sound ,clean &amp; free of holes</li> <li>- Prime with P-6842 Primer &amp; allow to become tack-free (dry)</li> </ul>   | <ul style="list-style-type: none"> <li>- Sound ,clean, damp</li> </ul>  | <ul style="list-style-type: none"> <li>-Sound ,clean, damp</li> </ul>   |

|  CPD CONSTRUCTION PRODUCTS | FASTCRETE H.S.   | FASTCRETE ULTRA   | RAPIDCRETE  | RAPIDCRETE (FIBER GRADE)   | 20 MINUTE SET  | TOPCRETE   | TOPCRETE SL  | AQUACRETE  | SUPERPLUG  |
|---|--|---|---|--|--|--|--|--|--|
| <b>COLOR</b>  | Light Grey   | Light Grey  | Light Grey  | Light Grey   | Grey   | Grey   | Light Grey   | Grey   | Grey   |
| <b>CPD CONCENTRATED LATEX IN MIX</b>  | OPTIONAL   | NO  | OPTIONAL  | OPTIONAL   | OPTIONAL   | YES  | NO   | NO   | NO   |
| <b>WORK TIME @ 23°C</b>   | 7-10 Mins.   | 15 Mins.  | 15-20 Mins.   | 15-20 Mins.  | 10 Mins.   | 30 Mins.   | 15-20 Mins.  | 3-5 Mins.  | 3 Mins.  |
| <b>INITIAL SET @ 23°C</b>   | 20-30 Mins.  | 20-30 Mins.   | 20-35 Mins.   | 20-35 Mins.  | 10-15 Mins   | 2 Hours  | 60-70 Mins.  | 10-20 Mins.  | 3 Mins.  |
| <b>SHAVING</b>  | YES  | YES   | NO  | NO   | NO   | NO   | NO   | YES  | NO   |
| <b>CURING</b>   | Damp cure for 48hr or Cipadeck Cure & Seal Solvent or Cipadeck Cure & Seal WB  | Damp cure for 24hr or Cipadeck Seal WB  | Wet cure for minimum of 1 hour  | Wet cure for minimum of 1 hour   | Cipadeck Cure & Seal Solvent or Cipadeck Cure & Seal WB  | Cipadeck Cure & Seal WB                              | Avoid exposure to direct sunlight & draft  | No curing required for underwater protection   | Wet cure or Cipadeck Cure & Seal Solvent or Cipadeck Cure & Seal WB if hot/windy/dry |
| <b>FOOT TRAFFIC @ 23°C</b>  | 2 Hours  | 2 Hours   | 2 Hours   | 2 Hours  | 6 Hours  | 12 Hours   | 12 Hours   | Not Applicable   | Not Applicable   |
| <b>VEHICULAR TRAFFIC @ 23°C</b>   | 24 Hours   | 24 Hours  | 2 Hours   | 2 Hours  | 24 Hours   | 24 Hours   | 24 Hours<br>Note: Can be covered in 24 hours depending on thickness & temperature  | Not Applicable   | Not Applicable   |
| <b>PACKAGING</b>  | 10 lbs (4.5 Kg.)<br>44 lbs (20 Kg.)  | 24 Kg. Kit  | 10 lbs (4.5 Kg.)<br>55 lbs (25 Kg.)   | 55 lbs. (25 Kg.)   | 55 lbs. (25 Kg.)   | 50 lb (22.7 Kg.)                                     | 50 lbs (22.7 Kg.)<br>1L / 3.79L / 18.9L  | 10 lbs (4.5 Kg.)<br>44 lbs (20 Kg.)  | 10 lbs (4.5 Kg.)<br>40 lbs (18.1 Kg.)  |
| <b>YIELD</b>  | 0.4 Ft <sup>3</sup> / 20 Kg.   | 0.4 Ft <sup>3</sup> / 24 Kg. Kit  | 0.5 Ft <sup>3</sup> / 25 Kg.  | 0.5 Ft <sup>3</sup>  | 0.46 Ft <sup>3</sup>   | 0.45 Ft <sup>3</sup>                                 | 0.46 Ft <sup>3</sup>   | 0.4 Ft <sup>3</sup> / 20 Kg.   | 0.3 Ft <sup>3</sup> /18.1 Kg.  |
| <b>COVERAGE</b>   | ½" – 9.6 Ft. <sup>2</sup><br>¾" – 6.4 Ft. <sup>2</sup><br>1" – 4.8 Ft. <sup>2</sup><br>1 ¼" - 3.8 Ft. <sup>2</sup><br>1 ½" – 3.2 Ft. <sup>2</sup><br>1 ¾" – 2.7 Ft. <sup>2</sup><br>2" – 2.4 Ft. <sup>2</sup><br>(Based on 44 lb / 20 Kg. bag) | 1/8" – 39.4 Ft. <sup>2</sup><br>¼" – 19.2 Ft. <sup>2</sup><br>½" – 9.6 Ft. <sup>2</sup><br>¾" – 6.4 Ft. <sup>2</sup><br>1" – 4.8 Ft. <sup>2</sup><br>1 ½" – 3.2 Ft. <sup>2</sup><br>2" – 2.4 Ft. <sup>2</sup><br>2 ½" – 1.9 Ft. <sup>2</sup><br>3" – 1.6 Ft. <sup>2</sup> | (i) 1" - 6 Ft <sup>2</sup><br><br>(ii) 2" - 14.7 Ft <sup>2</sup><br>(Extended @ 3 - 25 Kg. of Rapidcrete + 75 Kg. of 3/8" (10mm) pea gravel)<br>(Yield 2.44 Ft <sup>3</sup> )<br>(Based on 55 lbs / 25 Kg. bag) | (i) ¼" – 24 Ft <sup>2</sup><br>½" – 12 Ft <sup>2</sup><br>1" – 6 Ft <sup>2</sup><br>(ii) 2" - 14.7 Ft <sup>2</sup><br>(Extended @ 3-25 Kg. of Rapidcrete + 75 Kg. 3/8" (10mm) pea gravel)<br>(Yield 2.44 Ft <sup>3</sup> ) | ¼" – 22 Ft <sup>2</sup><br>½" – 11 Ft <sup>2</sup><br><br>¾" - 7.4 Ft <sup>2</sup><br>1" - 5.5 Ft <sup>2</sup><br><br>1 ¼" - 4.4 Ft <sup>2</sup><br>1 ½" - 3.7 Ft <sup>2</sup><br>1 ¾" - 3.2 Ft <sup>2</sup> | 1/8" – 43 Ft <sup>2</sup><br>½" – 11 Ft <sup>2</sup> | 1/8" - 44 Ft <sup>2</sup><br>3/16" – 29.5 Ft <sup>2</sup><br>¼" – 22 Ft <sup>2</sup><br>3/8" – 14.7 Ft <sup>2</sup><br>½" – 11 Ft <sup>2</sup><br>5/8" – 8.8 Ft <sup>2</sup><br>¾" – 7.4 Ft <sup>2</sup><br>1" – 5.5 Ft <sup>2</sup><br>1 ¼" – 4.4 Ft <sup>2</sup> | ¼" - 19 Ft <sup>2</sup><br>½" - 10 Ft <sup>2</sup><br>1" – 5 Ft <sup>2</sup><br>(Based on 40 lb/ 18.1 Kg.) | ¾" – 5 Ft <sup>2</sup><br>(Based on 40 lbs / 18.1 Kg.)                               |