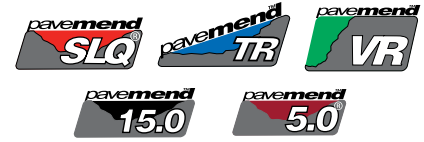


## Technological Overview for Repair Materials



Materials: Pavemend VR™  
Pavemend TR™  
Pavemend 15.0™  
Pavemend SLQ™  
Pavemend 5.0™

### 1.0 General Notes

Pavemend™ products are one-component, RAPID SETTING, chemically bonded materials; a non-Portland, non-epoxy ceramic-like cement designed for concrete rapid repair and anchoring systems.

The following information should be considered and referenced when using these high performance products.

- Read the instructions/label on each bucket for Set Times and Mixing Instructions.
- Read the "Repair Site and Product Preparation Field Guide". The guide can be found on our website: [www.ceratechinc.com](http://www.ceratechinc.com).
- The mixing and set times given are for reference and should be adapted to the existing conditions (i.e., climate and ambient temperatures).
- Use the supplied thermometer that came with the initial product order to measure temperature gain and to determine when Critical Mixing Temperature is reached.
- The recommended re-traffic times are based on a minimum compressive strength of 2500 psi.
- Our products undergo an exothermic (heat generated) chemical reaction when water is added and mechanical agitation is applied. While mixing, monitor material temperature (use supplied thermometer or equivalent). If materials are not mixed according to instructions its performance maybe negatively affected.
- Use water between 65°F (18°C) and 75°F (24° C). Never use mixing water over 80°F (27°C); it will negatively impact the chemical reaction. Lower water temperatures will lead to extended mixing times.
- DO NOT HAND MIX PRODUCT!
- DO NOT USE THESE MATERIALS TO SEAL/REPAIR CRACKS!
- Reference to the following table to select the proper material at different ambient temperatures

Material	Ambient Temperature			
	0F (-18°C) to 40F (4C)	40F (4C) to 50F (10C)	50F (10C) to 100F (38C)	100F(38C) to 120F(49C)
PaveMend®				
SLQ & 5.0	Recommended	Recommended	Recommended	<b>DO NOT USE</b>
15.0	<b>NOT Recommended</b>	Recommended	Recommended	Recommended
TR	<b>DO NOT USE</b>	<b>NOT Recommended</b>	Recommended	Recommended
VH	<b>DO NOT USE</b>	<b>NOT Recommended</b>	Recommended	Recommended



For questions regarding product use and applications, contact our technical representatives at 1.888.341.2600 or visit [www.ceratechinc.com](http://www.ceratechinc.com)

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## 2.0 Specific Material Characteristics

- Pavemend SLQ™, Pavemend 5.0™ and Pavemend 15.0™ are self leveling materials. They are ideal for horizontal surface repairs and mild slopes (up to 2)
- Pavemend TR™ is a trowel-able material. It reaches an early gel state allowing placement to match the existing grades and slopes (35 degree angles).
- Pavemend VR™ reaches a thick consistency approximately 60 seconds after the Target Mixing Temperature has been reached (allow material to gel in the bucket). It can be applied in sloped, vertical and overhead surfaces. Depending on the application, and the needs of the installer, the consistency of the material can vary from fluid to very thick.
- Once final set is reached, neither Pavemend SLQ™, Pavemend 5.0™ nor Pavemend 15.0™ can be agitated into a fluid state again.
- Pavemend TR™ and Pavemend VR™ can be agitated (using the drill and paddle or by vibrating the mix) to make them fluid again after initial set, allowing for extended working times. This process can be repeated for approximately 20 minutes and/or until the mix temperature reaches approximately 120°F (49°C). DO NOT ADD MORE WATER.
- Both Pavemend TR™, Pavemend VR™ and Pavemend 15.0™ can be extended with 3/8" fractured aggregate. DO NOT EXTEND Pavemend 5.0™ or Pavemend 15.0™ with aggregates (due to the low viscosity of the materials all aggregates will segregate to the bottom of the repair possibly creating a shear plane in the repair).
- Multiple units can be mixed in a plastic tub using the corresponding number of gallons of water (up to 3 units due to weight of the mix involved). Larger volumes of Pavemend 15.0™ and Pavemend TR™ can be mixed in a mortar mixer. Do not mix Pavemend SLQ™ in a grout mixer; the material reaches final set very rapidly and could ruin the equipment.
- Re-trafficking times are based on 2500 psi compressive strengths and ambient temperatures of 72°F (22°C). They MUST be extended an additional 30 minutes for every 10°F/-12°C below 50°F/12°C.
- Do not add water to finish the surface. This will compromise the properties of the material and will lead to whitening, dusting and delamination.
- All design conditions of pavements and structural concrete must be reestablished after placement. The following criteria should be applied to determine the appropriate time to reestablish joint strength 72°F after final set:

Pavemend SLQ™ - 1 hour  
Pavemend 5.0™ - 1 hour  
Pavemend 15.0™ - 2 hours  
Pavemend TR™ - 3 hours  
Pavemend VR™ - 3 hours



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