


## Square Cartridge Heater End Seals

<b>Cement</b>	Provides protection against some thicker liquids and dust, however it is not waterproof. It is also somewhat brittle and subject to cracking in high impact or high vibration applications. Up to 2600°F.
<b>Ceramic</b>	A steatite endpiece provides excellent strength and temperature resistance. However it offers little protection against moisture or other contaminants.
<b>Epoxy Potting</b>	Provides a very good seal with excellent mechanical strength. However, its adherence to Teflon or silicone rubber lead wire is only fair. It is rated up to 265°F and bonds well to Duraflex lead wire.
<b>EpoxyLite Potting</b>	Provides similar mechanical properties as epoxy potting. Up to 600°F.
<b>RTV</b>	<ul style="list-style-type: none"> <li>• RTV Potting, when used in combination with silicone rubber insulated lead wire, provides the best seal of all options.</li> <li>• The down side to silicone is that it is limited to 500°F and while extremely flexible, it is not as strong mechanically as other options.</li> <li>• Although the RTV is rated for 500°F, silicone rubber leads are only rated to 392°F. An option is to use Duraflex lead wire instead. Duraflex is rated to 1000°F and has a heavy silicone coating.</li> <li>• While Duraflex is not sold as a waterproof wire, it performs very well in wet environments.</li> <li>• Another option is to use crimped on leads, then the power pins are sealed where they enter the heater and the type of lead wire does not matter.</li> </ul>

### Chart

	End Seal Type	Max Temp	Moisture Protection	Contamination	Mechanical Strength	Vibration Resistance	Moisture Applications	Vibration or Flexing
	Cement Potting	2600°F	Poor	Fair	Good	Poor	Poor	Poor

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