

COMPARISON

MG-Krete versus common cement based concrete repair materials & expensive specialty patch materials

	MG-KRETE	CEMENT BASED	NON-CEMENT BASED
<i>Compressive Strength:</i>			
<i>2 hours</i>	3,481 psi (24.8 MPa)	Negligible	2,000 psi (13.8 MPa)
<i>7 days</i>	5,815 psi (40.1 MPa)	1,500-3,200 psi (10.3-22.1 MPa)	6,000 psi (41.4 MPa)
<i>28 days</i>	11,194 psi (77.2 MPa)	5,000-6,100 psi (34.5-42.1 MPa)	8,500 psi (58.6 MPa)
<i>Flexural Strength</i>	1,405 psi (9.7 MPa)	1,000-1,200 psi (6.9-8.3 MPa)	550 psi (3.8 MPa)
<i>Shrinkage</i>	Zero	0.044 - 0.093%	Zero
<i>Return to Full Service</i>	1 to 2 hours	Minimum 24 hours	Minimum 2 hours
<i>Resistance to Water, Gas, Oil Penetration</i>	Excellent	Poor to Moderate	Good
<i>Minimum Application Temp.</i>	14°F (-10°C)	41°F to 50°F (5°C to 10°C)	19°F (-7°C)
<i>Bond Strength</i>	Stronger Than Concrete	1,400-2,500 psi (9.7-17.2 MPa)	N/A
<i>Mix Ratio/Slump</i>	Not critical	Critical Ratio	Critical Ratio
<i>Feathering Ability</i>	Yes	Limited	Limited
<i>Deep Pour Ability</i>	Yes	Some Limitations	Requires Multiple Placements
<i>Surface Treatment</i>	No Bonding Agent Required	Scrub Coat or Primer	No Bonding Agent Required
<i>Post Treatment Required</i>	No	Yes	No
<i>Labor Required</i>	One Application	Two or More Applications	One Application