

HT-1

High Temperature Potting Cement

SCProbond™ HT-1 High Temperature Potting Cement is a non-halogen, chemical setting cement ideal for bonding ceramics, glasses and most metals. This heat conductive and thermal shock resistant cement exhibits an extended pot-life and can be employed in thicker applications without deformation. Good for temperatures up to 1100°C, HT-1 resists oil, electricity, all acids (except hydrofluoric), most solvents, and is both fireproof and gas proof. Powder available in 1-quart cans, 1-gal cans, 50-lb. moisture-resistant bags & 50 lb. plastic pails. For best adhesive results this material requires a heat cure at 65°C to induce a final set after application.

Application Guidelines:

Maximum Service Temp	1100°C (2012°F)
Working Time	8 hours after addition of mixed powder
Functional Cure	48 hours without heat cure
Mix Ratio (By Weight)	100:18 (Powder to water)

Physical Properties:

Color	Off-white	
Density (wet)	2.09 g/cc (130.47 lb/)	ASTM -138
Density (cured)	1.72 g/cc (107.38 lb/)	
Compressive Strength	17.2MPa (2500psi)	ASTM-579
Dielectric Strength	1.3kV/mm (35V/mil)	ASTM D-149
pH value	10.5	
Maximum Particle Size	595 microns	