

DYLON DATA



GRADE

C-3

308

DYLON GRADE C-3 SUPER BOND CERAMIC CEMENT

DESCRIPTION:

Dylon Grade C-3 Super Bond Cement is an easy to use, single component, chemical setting polysilicate-based material. The cement sets rapidly producing a ceramic bond of exceptionally high strength — even to temperatures of 2000°F. The resultant joints are often stronger than the substrates. **Dylon Grade C-3 Super Bond Cement** is an excellent electrical insulator and is highly resistant to thermal shock. The cured cement is extremely stable in hostile gaseous environments. It is asbestos free and produces no toxic fumes or off gases.

USES:

Dylon Grade C-3 Super Bond Cement can be used to bond ceramics, metals, quartz and glass. It can be used for embedding resistance wires, sealing capacitors, insulation, thermocouples and coating resistors. The cement replaces insulation, varnishes, enamels, mica and resins for high heat protection. It is more economical than silicones and organic materials.

TYPICAL PHYSICAL PROPERTIES:

Maximum Service Temperature:	2000°F	Thermal Expansion:	7×10^{-6} in/in/°F
Maximum Particle Size:	825 μ m	pH (wet):	11
Compressive Strength:	4000 psi.	Water Absorption:	1.2%
Density:	2 g/cc	Shrinkage:	0.8%

APPLICATION:

Remix the dry powder before use as some segregation can occur during storage. The recommended bonding mixture is 86 parts by weight of powder to 14 parts by weight of water; however, the cement may be made thicker or thinner to meet various conditions. The pre-weighed powder should be added to the pre-weighed water and stirred constantly. Continue mixing for 5 minutes after cement is smooth and uniform. Application or setting temperature above 70°F will cause cement to set rapidly. Surfaces to be joined should be cleaned of rust, oil, grease and dirt. Apply **Grade C-3** by trowel, syringe, brush, spatula, pouring or dipping. Cement joints can be anywhere between $\frac{1}{64}$ " and $\frac{1}{8}$ " in thickness.

CURING:

Dylon Grade C-3 Super Bond Cement does not require air to cure but it does need circulation to allow the moisture to evaporate. The initial set occurs in about 30 to 60 minutes depending on the ambient temperature.

PACKAGING:

2 lb. (0.9 kg), 9 lb. (4.0 kg), 50 lb. (22 kg) pails 550 lb. (250 kg) drums



ISO 9001:2000 CERTIFIED

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