



Ceramacoat 512

Rev.: 05/01

Description

Ceramacoat 512 is a 1-K ceramic adhesive and coating compound based on silicate. This product convinces with its excellent adhesive strength and the possibility to be thinned to any consistency using a thinner.

Ceramacoat 512 is primarily used for ceramics, tight temperature protective coatings on various metallic materials, e.g. nozzle- or rocket engines, as well as electrical components and for closing of porous ceramics.

This product is also used as an adhesive for glass / metal connections and metal / metal connections.

Technical Data

Characteristics	Ceramacoat 512
Main Components	Silicate – Silicate Binder
Max. Temperature	980 °C
Adhesion	20 – 35 Kh/cm
Spec. Weight	ca. 2.1 g/cm ³
CTE	11.2 in/in/°C x 10 ⁻⁶
Dielectric Strength	50 V/mil (1.97 kV/mm) at RT
Pressure Resistance	275 kg/cm ²
Tensile Strength	28 kg/cm ²
Oil Resistance	Good
Acid Resistance	Good (Exception: Hydrogen fluoride)
Solvent Resistance	Good
Shrinkage	<0.4 %
Colour	White
Thinner	Thinner 512-T

Handling

Clean the surfaces of rust, grime, fat, oil and if needed roughen up the surface. The application can be done using a brush or dispenser, depending on consistency and application.

Hardening

- 4 Hours air cure
- 4 Hours heat cure at approx. 90° C.
- To reach a sprayable consistency, add 20 – 25 percent Thinner 512-T by weight.