

–Organic Impregnant for Porous Materials– Super Seal P-400 series

The Super Seal P-400 Series is a versatile impregnation agent suitable for automotive, precision machinery, and electronic components. It offers excellent sealing performance for porous materials and has passed the U.S. Department of Defense MIL standard tests, ensuring outstanding reliability. Widely recognized as the standard impregnant for sintered components.

Feature

- ◎ It is a 100% reactive (solvent-free) type.
- ◎ It has extremely low viscosity and surface tension, allowing it to penetrate into even the finest pores.
- ◎ It disperses well in water, leaving no surface residue.
- ◎ After curing, it forms a cross-linked resin with excellent resistance to various solvents and chemicals.
- ◎ Certified to MIL-I-17563C (Super Seal P-401).

Properties

Item	Value
Main Component	Methacrylic acid ester
Appearance	Transparent liquid
Density g/cm ³ (25°C)	1.01 ~ 1.03
Viscosity mPa · s (25°C)	8 ~ 12

Performance

Item	Results	Test Method
Pressure Resistance	2.0 Mpa or more	Immersion Pressure Test (No Leak)
Curing Time	Within 6 minute	In-house Test
Chemical Resistance	No Leakage	MIL-I-17563C
Thermal Shock Test	No Leakage	-40°C ~ 160°C × 60 minute 250cyc.
Heat Resistance	No Leakage	180°C × 400hour
Decomposition Temperature	210°C	TG-DTA

Handling Precautions

- Please be sure to read the Safety Data Sheet (SDS) before handling this product.
- When using, add the enclosed hardener and stir thoroughly before application.
- Keep away from open flames.
- Store in a cool, dark place away from direct sunlight.
- Handle in a well-ventilated area.
- Wear appropriate protective equipment to prevent contact with eyes, skin, and clothing.
- Thoroughly wash your hands, face, and any exposed skin after handling.