

DENSURF FR 1000

Polyborosiloxane Resin

PRODUCT DESCRIPTION

Densurf FR 1000 is a heat curable and flame retardant polyborosiloxane resin.

- Uses for solvent-borne heat and corrosion resistant paints.
- Provides thermal resistance up to 600-650 °C when formulated with suitable pigments and fillers.
- Completes touch-free dry in 1 hour at ambient temperature.

APPLICATIONS

Industrial and Protective Coatings:

- Barbeque/stove
- Muffler
- Industrial Chimney
- Industrial Furnace
- Pipelines
- Storage Tanks

SOLUBILITY

MPA	<input checked="" type="radio"/>	Aliphatic Hydrocarbon	<input type="radio"/>
Ethyl Alcohol	<input checked="" type="radio"/>	Butyl Acetate	<input checked="" type="radio"/>
Butyl Alcohol	<input checked="" type="radio"/>	Xylene	<input checked="" type="radio"/>
	<input checked="" type="radio"/> Soluble	<input type="radio"/> Partly Soluble	<input type="radio"/> Not Soluble

STORAGE

- Store between 5°C-35°C.
- The shelf life is at least 12 months in the unopened original packaging from the date of manufacture when stored at recommended conditions.
- Close the packaging cap tightly after use.
- Keep away from moisture to avoid gelation.
- WARNING! Contact with directly metal reduce shelf life.
- WARNING! Keep away from acids, heat and moisture.

TECHNICAL PROPERTIES

- Chemical Structure: Polyborosiloxane resin
- Solid Content(10min., 160 °C): 58 ± 2%
- Appearance*: Hazy liquid
- Density (20 °C): 1.101 ±0.020 g/ml
- Viscosity (25 °C): 60 ±30 mpas
- Solvent: Xylene

*The performance of product are not affected by haziness.

SYSTEMS

Alkyd	<input checked="" type="radio"/>	Acrylic PU	<input type="radio"/>
Thermoplastic Acrylic	<input type="radio"/>	Epoxy	<input type="radio"/>
	<input checked="" type="radio"/> Suitable	<input type="radio"/> Partly Suitable	<input type="radio"/> Not Suitable

DOSAGE

Recommended amount; 30-50 % (by weight as supplied based on total formulation)

Note: Amounts mentioned above are just a recommendation. Please make laboratory tests to specify the optimum amounts.

PROCESS RECOMMENDATION

- Curing time, 250°C / 60 min.
- Heat resistance tests must be applied under dry heat. Resin should not be exposed to direct flame.
- It can be cold-blended with suitable organic resins.
- Recommended special formulation with metallic pigment to get heat resistance up to 650 °C
- Polar solvents such as isobutanol and butyl acetate can be used with xylene in formulation.
- Surface pre-treatment is needed.