DENSURF HR 800

Silicone Resin

PRODUCT DESCRIPTION

Densurf HR 800 is a heat-curable methyl-phenyl polysiloxane 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	● (Soluble)	Aliphatic Hydrocarbon	● (Partly Soluble)
Ethyl Alcohol	● (Partly Soluble)	Butyl Acetate	● (Soluble)
Butyl Alcohol	● (Soluble)	Xylene	● (Soluble)

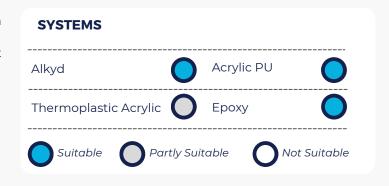● Soluble ● Partly Soluble ○ Not Soluble

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:** Methyl-phenyl polysiloxane resin
- **Solid Content(10min., 160 °C):** 50.00 ± 2.00 %
- **Appearance*:** Hazy-light yellow liquid
- **Density (20°C):** 1.02 ± 0.01 g/mL
- **Viscosity (25°C):** 70.00 ± 30.00 mPa.s
- **Solvent:** Xylene:Isobutanol (15 : 1, by weight)
- **Phenyl/Methyl Ratio:** 1 : 1

* The performance of product are not affected by haziness.

SYSTEMS

Alkyd	● (Suitable)	Acrylic PU	● (Suitable)
Thermoplastic Acrylic	● (Partly Suitable)	Epoxy	● (Suitable)

● Suitable ● Partly Suitable ○ Not Suitable

DOSAGE

Recommended amount; 30.00 - 50.00 % (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 / 30 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 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.

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