

# DENSURF HR 900

## Silicone Resin

### PRODUCT DESCRIPTION

Densurf HR 900 is a heat curable 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.
- Has high compatibility with organic resins.

### 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 type="radio"/>	Butyl Acetate	<input checked="" type="radio"/>
Butyl Alcohol	<input checked="" type="radio"/>	Xylene	<input checked="" type="radio"/>

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: Phenyl polysiloxane resin
- Solid Content(10min., 160 °C): 50.00 ± 2.00 %
- Appearance\*: Clear/Little hazy liquid
- Density (20 °C): 1.15 ± 0.02 g/mL
- Viscosity (25 °C): 60.00 ± 30.00 mPa.s
- Solvent: Xylene

\*The performance of product are not affected by haziness.

### SYSTEMS

Alkyd	<input checked="" type="radio"/>	Acrylic PU	<input checked="" type="radio"/>
Thermoplastic Acrylic	<input checked="" type="radio"/>	Epoxy	<input checked="" type="radio"/>

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 800 °C.
- Polar solvents such as isobutanol and butyl acetate can be used with xylene in formulation.
- Surface pre-treatment is needed.