

DENSURF HR 700A

Silicone Resin

PRODUCT DESCRIPTION

Densurf HR 700A is a methyl-polysiloxane resin that can be cured at ambient conditions

- Provides thermal resistance up to 600 - 650 °C when formulated with suitable pigments and fillers.
- Uses for heat and corrosion resistant solvent-borne coatings.
- The curing reaction is catalyzed with tetra-n-butyl titanate (Densurf TBT).

APPLICATIONS

Industrial and Protective Coatings:

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

SOLUBILITY

MPA	<input checked="" type="radio"/>	Aliphatic Hydrocarbon	<input checked="" 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:** Methyl-polysiloxane resin
- **Active Content:** 100.00 %
- **Appearance*:** Clear/hazy liquid
- **Density (20 °C):** 1,11 ± 0,02 g/mL
- **Viscosity (25 °C):** Max 100.00 mPa.s

*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: 30.00 - 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

- The Densurf TBT should be added into paint system before the application. Dosage should be 0,80 - 1,20 % referred on active solid content of resin.
- Catalyst should be added before the filling operation for one component systems.
- Completes touch-free dry within 1 hour after application.
- Need to wait 7 days at ambient condition for total curing.
- Humidity of air is needed for cross-linking process. It can only be cured in air-circulated ovens.
- 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
- Surface pre-treatment is needed.