# **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 solventborne 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

# **TECHNICAL PROPERTIES**

- Chemical Structure: Methyl-polysiloxane resin
- Active Content: 100%
- Appearance\*: Clear/hazy liquid
- Density (20°C): 1,110 ±0,020 g/ml
- Viscosity (25°C): Max 100 mPas

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

#### **SYSTEMS**

Alkyd	Acrylic PU	0
Thermoplastic Acrylic O	Ероху	0
Suitable Partly Suit	table <b>O</b> N	ot 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**

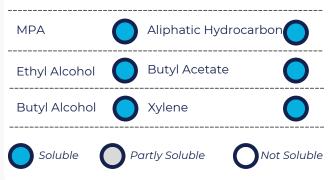
- The Densurf TBT should be added into paint system before the application. Dosage should be 0,8-1,2% referred on active solid content of resin.
- Catalyst should be added before the filling operation for one component systems.
- Completes touch-free dry within 1 hour after application.
- Need to wait 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.
- WARNING! Keep away from acids, heat and moisture.

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Document No: FR.04-001 Publish Date: 11.03.2022 Revision Date: 11.03.2022 Revision No : 0 Info. Label: Public Our technical data sheets provide directions for the application possibilities of our products. Our recommendations are in line with our present state of knowledge and do not provide any guarantee.

www.densurf.com

#### SOLUBILITY



## **STORAGE**

life

- 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.

WARNING! Contact with directly metal reduce shelf

Close the packaging cap tightly after use.Keep away from moisture to avoid gelation.