Densurf HR 800A

Silicone Resin

Content Publish Date: 01.03.2025
Content Revision Date: 01.03.2025
Content Revision No : 000

PRODUCT DESCRIPTION

Densurf HR 800A is a methyl and phenyl-polysiloxane resin that can be cured at the ambient conditions with the help of the catalyst.
The curing reaction is catalyzed by the tetra-n-butyl titanate and the tetramethyl guanidine (Densurf TBT - Densurf TMG).

APPLICATIONS & KEY FEATURES

It provides thermal resistance up to the 600 - 650 °C when it is formulated correctly.
It is used for the heat and the corrosion resistant solvent-based coatings.

The Main Application Areas of the Densurf HR 800A are:

- Heat Resistant Applications
- General Industrial Paints

SOLUBILITY

Water	Ethanol
N-Butyl Acetate	Isobutanol
Xylene	Methoxy Propyl Acetate

Soluble — Not Soluble

**Detailed knowledge about the suitable diluents can be asked to the technical support team.
The provided diluents are the refferances according to the most common application areas.

STORAGE

Please store the unopened packaging between 5°C - 35°C.
The shelf life is at least 12 months for unopened packagings.
Close the packaging cap tightly after use.
WARNING! Keep away from the acids, the heat and the moisture.

SPECIAL NOTES

Densurf HR 800A provides an excellent hydrophobicity and the corrosion-protection.

It has a good balance of the flexibility, the hardness, the heat resistance and the curing speed.

TECHNICAL PROPERTIES

- Chemical Structure: Methyl and phenyl-polysiloxane resin
- Appearance: Transperent/hazy liquid
- Density (20˚C): 1.08 ± 0.02 g/mL
- Solid Content (10 mins., 160˚C): 86.00 ± 4.00 %
- Phenyl : Methyl Ratio: 1 : 1
- Solvent: Xylene : Isobutanol (15 : 1)

SYSTEM

Long Oil Alkyd Resins	Polyester Resins
Short Oil Alkyd Resins	Thermoplastic Acrylic
Solvent-Based Epoxy Resins	Acrylic Polyol Resins

Suitable — Not Suitable

**Detailed knowledge about the compatible systems can be asked to technical support team.
The provided systems are the refferances according to the most common application areas.

DOSAGE

Recommended amount: 30.00 - 50.00 % (by weight as supplied based on the total formulation)

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

The catalyst should be added into the paint system before the application.

Dosage should be the 0,80 - 1,20 % referred on the active solid content of the resin.

PROCESS RECOMMENDATION

It can be cold-blended with the suitable organic resins. Surface pre-treatment is needed.

It completes its touch-free dry within the 1 hour after the application.

It needs to wait for the 7 days at the ambient condition for the total curing.

Velimeşe Organize Sanayi Bölgesi Mah. 259. Sok. No:4/1 Ergene / Tekirdağ / Türkiye | T: +90 (282) 674 54 00 | F: +90 (282) 674 50 01 | info@densurf.com | www.densurf.com | Document No: FR.04-001
Publish Date: 11.03.2022 | Revision Date: 01.03.2025 | Revision No : 001 | Info. Label: Public