

DENSURF AF 200

DEFOAMER &
AIR RELEASE AGENT



DESCRIPTION

Densurf AF 200, polysiloxane based deaerator, effects on both macro and micro foams.

Recommended for pigmented solvent-free 2K epoxy systems.

Contains hydrophobic particles.

HIGHLIGHTS

*for performance
& application*

- ✓ Thick-layer applications
- ✓ Solvent-free systems
- ✓ Fast air release
- ✓ Floorings
- ✓ Protective coatings



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Performance Test in Solvent-free Epoxy System

AF

Foam formation is the most common problem in solvent-free systems and high-build paints. Effective air release agents are used to allow the foam to rise to the surface, be ruptured and discharged from the system.

In this study, 0.5% of Densurf AF 200 was added to the paint, its formulation is given on the righthand side.

In order to test the performance of Densurf AF 200, paint was mixed with a higher shear during 10 min. Then, densities of the paints were recorded after 5 min. Density values are given below. Theoretical density of the paint was calculated as 1.506 g/ml.

	Amount (%)
Epoxy Resin	48
Reactive Diluent	12
Rheology Modifier	1.8
Iron Oxide Red Pigment	5
Talc	13.4
Barite	19.8
TOTAL	100

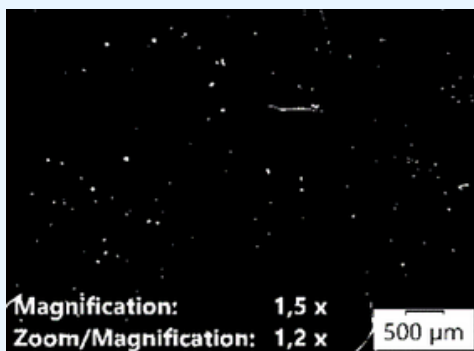
	Density (g/ml, 20°C) t=0 day @ 25°C	Density (g/ml, 20°C) t=1 day @ 25°C	Density (g/ml, 20°C) t=30 days @ 50°C
Blank	1.143	1.186	1.186
Densurf AF 200	1.455	1.457	1.478
Benchmark	1.434	1.447	1.452

Micro foams were examined under the microscope (Olympus SZX7 Stereo Microscope) after the paint applied to the transparent acetate paper without any shear force.

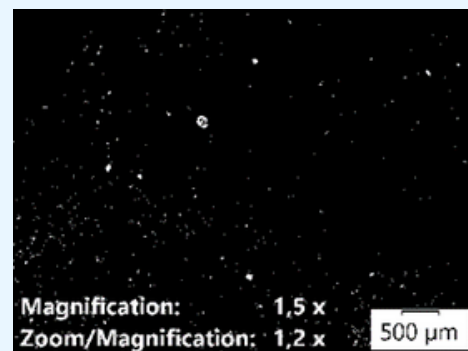
Densurf AF 200



Blank

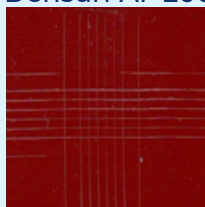


Benchmark

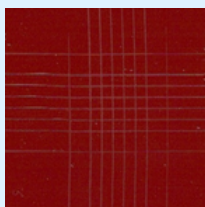


Finally, recoatability performance of the paints were tested. First layer of paint (100 µ) was applied on metal sheet and cured at 80°C for 1 hour. Then, the second layer was applied on the cured film after it was brought to room temperature and cured at 80°C for 2 more hours. Adhesion test was performed after the process, and the results are given right-hand-side.

Densurf AF 200



Benchmark



REMARKS

- ✓ Provides highly efficient deaeration in solvent-free epoxy systems
- ✓ Excellent long-term performance
- ✓ Has no effect on the recoatability of solvent-free epoxies



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