

DENSURF

DA 413

DISPERSING AGENT



DESCRIPTION

DENSURF DA 413 is a copolymer with acidic anchor groups
Recommended for the dispersion of inorganic pigments, especially titanium dioxide.
Used in solvent-based coatings.

HIGHLIGHTS

*for performance
& application*

- ✓ Decreases mill-base viscosity
- ✓ Inorganic pigments and titanium dioxide
- ✓ Protective coatings
- ✓ Wood Coatings
- ✓ General industrial coatings



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densurf ✓

Performance Test in Acrylic PU Topcoat

DA

Densurf DA 413 was tested with a benchmark product in a 2K PU acrylic system formulated with titanium dioxide pigment.

Viscosity and fineness of the grind values of the paints were checked after stability. Additionally, gloss and distinctness of image (DOI) levels of the paint films were measured before and after stability. For the stability tests, paints were stored in 50°C for 1 month. Finally, paints were tinted with naphthol red pigment paste and rub-out tests were performed to check the stability.

Results are given below.

	Viscosity (mPas, @20°C) t=0 day @ 25°C	Viscosity (mPas, @20°C) t=28 day @ 50°C
Densurf DA 413	1200	2000
Benchmark	1300	2300

	Fineness of grind (μ) t=0 day @ 25°C	Fineness of grind (μ) t=28 day @ 50°C
Densurf DA 413	10	15
Benchmark	10	20

	Gloss (20°)		Gloss (60°)		Distinctness of Image (DOI)	
	t=0 day @ 20°C	t=28 day @ 50°C	t=0 day @ 25°C	t=28 day @ 50°C	t=0 day @ 25°C	t=28 day @ 50°C
Densurf DA 413	94.7	88.6	96.9	93.1	90.4	80.5
Benchmark	96.9	90.7	98.4	93.2	93.7	82.0

Densurf DA 413

t=0 day @ 25°C



t=28 day @ 50°C



Benchmark

t=0 day @ 25°C



t=28 day @ 50°C



REMARKS

- ✓ Excellent long-term performance in 2K PU acrylic topcoats
- ✓ Safe in terms of pigment flocculation
- ✓ Comparable gloss retention performance against a well-known benchmark product



Densurf DA 413 was tested with a benchmark product in a epoxy primer formulation.

Viscosity, fineness of the grind values and gloss levels of the paints were checked before and after stability. For the stability tests, paints were stored in 50°C for 1 month.

Results are given below.

	Viscosity (mPas, @20°C) t=0 day @ 25°C	Viscosity (mPas, @20°C) t=28 day @ 50°C
Densurf DA 413	1200	5200
Benchmark	1200	12500

	Fineness of grind (μ) t=0 day @ 25°C	Fineness of grind (μ) t=28 day @ 50°C
Densurf DA 413	20	25
Benchmark	20	30

	Gloss (85°)	
	t=0 day @ 20°C	t=28 day @ 50°C
Densurf DA 413	26.7	24.4
Benchmark	31.6	31.4

Densurf DA 413

t=0 day @ 25°C

t=28 day @ 50°C



Benchmark

t=0 day @ 25°C

t=28 day @ 50°C



REMARKS

- ✓ Excellent long-term performance in epoxy primers
- ✓ Safe in terms of viscosity

Performance in Acrylic Barite Paste

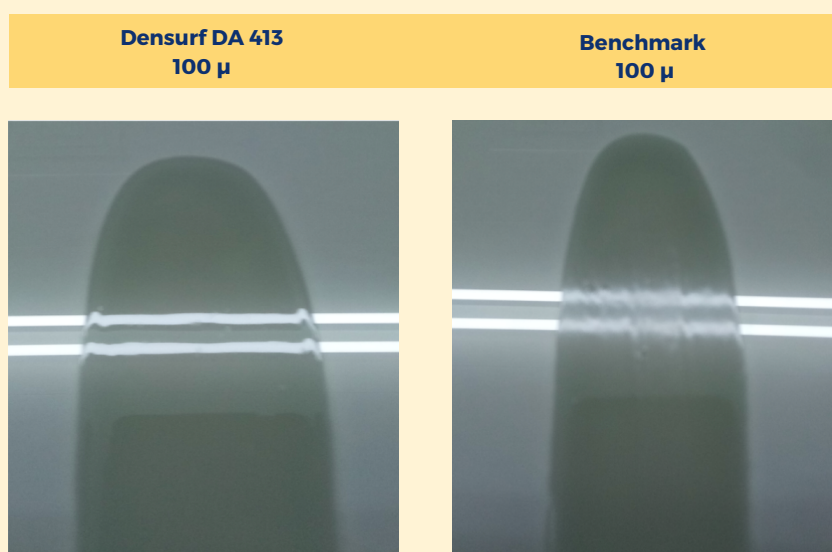
DA

Densurf DA 413 was tested with a benchmark product in a 2K PU acrylic extender paste formulation.

Viscosity, fineness of the grind values of the paints were checked.
Results are given below.

Viscosity (mPas, @20°C)	
Densurf DA 413	800
Benchmark	1400

Fineness of grind (μ)	
Densurf DA 413	25
Benchmark	20



REMARKS

- ✓ Better DOI compared to the benchmark product.
- ✓ Great viscosity reduction.

