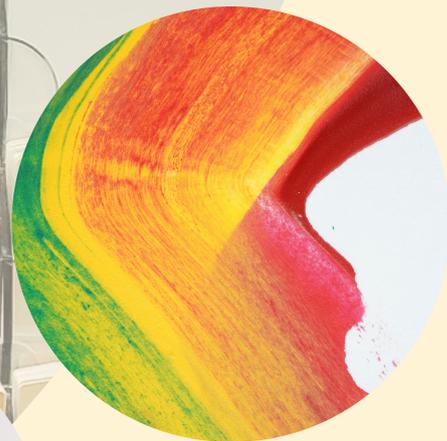
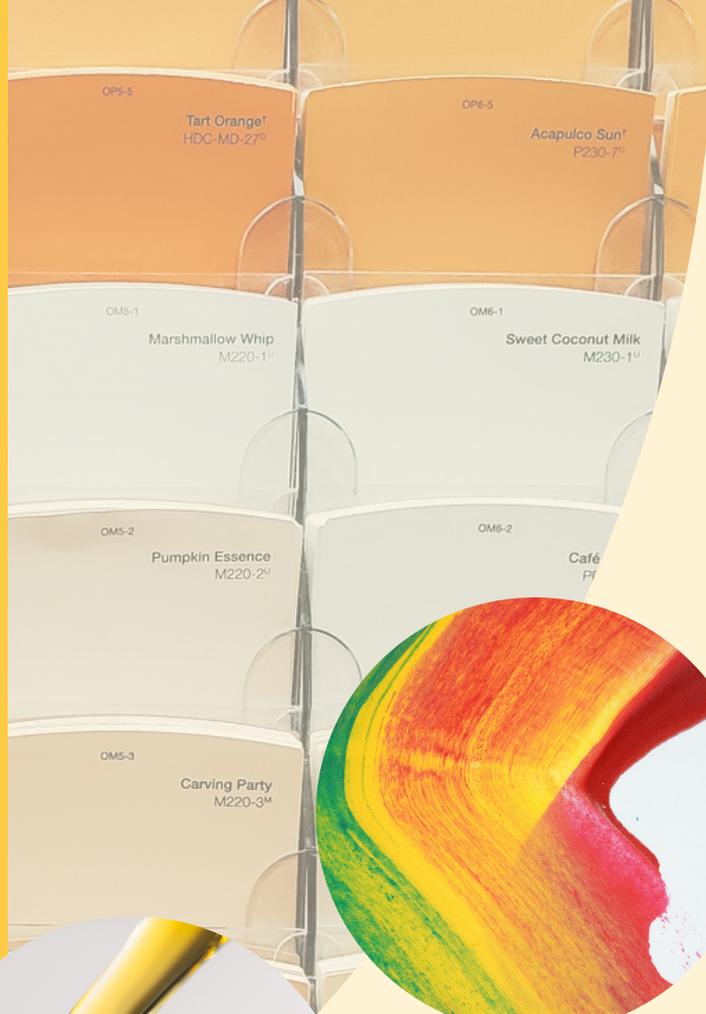


DENSURF

DA 405

DISPERSING AGENT



DESCRIPTION

Densurf DA 405 is a hydroxy functional carboxylic acid ester based dispersing agent
Recommended for solvent-based alkyd paints
Increases color strength and gloss

HIGHLIGHTS

*for performance
& application*

- ✓ Medium- and long-oil alkyd resins
- ✓ All pigments
- ✓ Enhances gloss
- ✓ Printing inks
- ✓ General industrial coatings
- ✓ Wood coatings



+90 (282) 674 54 00



www.densurf.com

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Performance Test in White Alkyd Topcoat

DA

Densurf DA 405 was tested with a benchmark product in solvent-based long oil alkyd topcoat for general industrial applications.

Viscosity and fineness of grind values of the paints were checked after stability. Results are given on the right-hand side.

Additionally, gloss and distinctness of image (DOI) levels of the paint films were measured before and after stability and given below.

	Fineness of grind (μ) t=0 day @ 25°C	Fineness of grind (μ) t=28 day @ 25°C	Fineness of grind (μ) t=28 day @ 50°C
Densurf DA 405	10	15	15
Benchmark	10	15	15

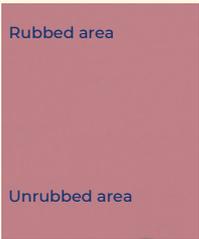
	Viscosity (mPas, @20°C) t=0 day @ 25°C	Viscosity (mPas, @20°C) t=28 day @ 25°C	Viscosity (mPas, @20°C) t=28 day @ 50°C
Densurf DA 405	3200	3300	3500
Benchmark	3200	3500	3800

	Gloss (20°)			Gloss (60°)		
	t=0 day @ 25°C	t=28 day @ 25°C	t=28 day @ 50°C	t=0 day @ 25°C	t=28 day @ 25°C	t=28 day @ 50°C
Densurf DA 405	78.5	67.8	65.3	86.6	85.5	80.2
Benchmark	80.7	67.1	63.5	86.2	84.3	80.9

	Distinctness of Image (DOI)		
	t=0 day @ 25°C	t=28 day @ 25°C	t=28 day @ 50°C
Densurf DA 405	76.5	72.1	71.2
Benchmark	74.4	70.8	69.6

Finally, white paints were tinted with the standard iron oxide red paste and rub-out tests were performed to check the stability. Results are given below.

Densurf DA 405

t=0 day @ 25°C	t=28 day @ 25°C	t=28 day @ 50°C
		
ΔE: 0.29	ΔE: 0.39	ΔE: 0.82

Benchmark

t=0 day @ 25°C	t=28 day @ 25°C	t=28 day @ 50°C
		
ΔE: 0.27	ΔE: 0.39	ΔE: 0.84

REMARKS

-  Excellent long-term performance in long-oil alkyd systems
-  Safe in terms of pigment flocculation
-  Comparable gloss retention performance against a well-known benchmark product