

# DENSURF

## DA 412

DISPERSING AGENT



### DESCRIPTION

DENSURF DA 412 is a copolymer with acidic anchor groups Recommended for the dispersion of inorganic pigments, especially titanium dioxide. Used in solvent-free/solvent-based coatings.

### HIGHLIGHTS

*for performance  
& application*

- ✓ Decreases mill-base viscosity
- ✓ Inorganic pigments and titanium dioxide
- ✓ Protective coatings
- ✓ Floorings
- ✓ General industrial coating



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# Performance Test in Epoxy Topcoat

# DA

Densurf DA 412 was tested with a benchmark product in solvent-based epoxy topcoat formulated with iron oxide red 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. Finally, rub-out tests were performed to check the stability.

Results are given below.

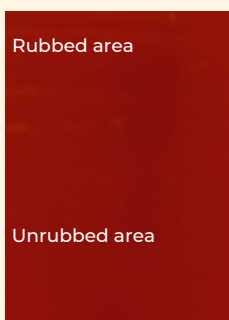
	Viscosity (mPas, @20°C) t=0 day @ 25°C	Viscosity (mPas, @20°C) t=28 day @ 50°C
Densurf DA 412	1000	1300
Benchmark	1200	1500

	Fineness of grind (μ) t=0 day @ 25°C	Fineness of grind (μ) t=28 day @ 50°C
Densurf DA 412	10	10
Benchmark	10	10

	Gloss (20°)		Gloss (60°)		Distinctness of Image (DOI)	
	t=0 day @ 25°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 412	87.5	83.6	96.3	91.6	71.6	68.6
Benchmark	85.4	82.6	92.4	89.9	70.3	65.3

## Densurf DA 412

t=0 day @ 25°C

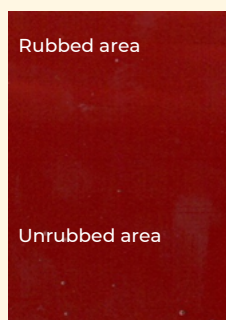


t=28 day @ 50°C



## Benchmark

t=0 day @ 25°C



t=28 day @ 50°C



## REMARKS

- ✓ Excellent long-term performance in solvent-borne epoxy topcoats
- ✓ Safe in terms of pigment flocculation
- ✓ Comparable gloss retention performance against a well-known benchmark product



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