

DISPERBYK-2098

High-performance, economic wetting and dispersing additive for aqueous pigment concentrates and effective compatibilizer for aqueous coatings

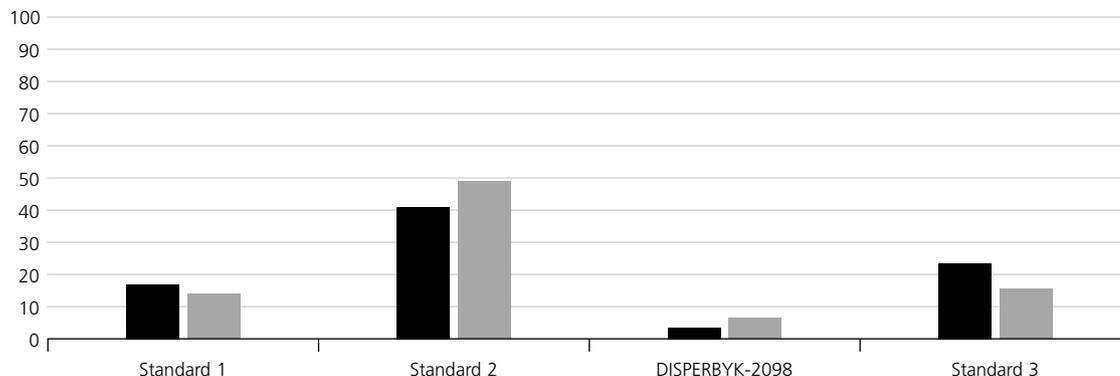
Aqueous pigment concentrates with a broad resin compatibility support the coatings industry's approach to reduce the number of raw materials and control cost but simultaneously achieve high coloristic quality in aqueous coatings.

Resin-free pigment concentrates provide the required broad compatibility and thus increase the formulation flexibility. They also allow higher levels of pigment loading, which, in return, enables better control of their impact on the coating – technically and commercially.

DISPERBYK-2098 is a new high-performance, cost-effective additive that has been designed for such aqueous, resin-free pigment concentrates with broad compatibility. It is also an effective compatibilizer to reduce flooding and floating and enhance the tinting strength of pigment pastes when post-added.

DISPERBYK-2098 – Excellent and storage-stable viscosity reduction

Viscosity (mPa·s)



● Initial ● After storage (2 weeks at 50 °C)

Test system: Colorant with pigment Monarch® 120 (PBk 7), 20 % pigment load

Additive dosage: 40 % s.o.p.

Viscosity measurement: Anton Paar rheometer MCR102, System: CP50-1, Shear rate: 50 1/s, 23 °C

Benefits

General benefits:

- Highly cost-effective
- Dual-function additive
- VOC- (< 1500 ppm) and APEO-free

As a wetting and dispersing additive:

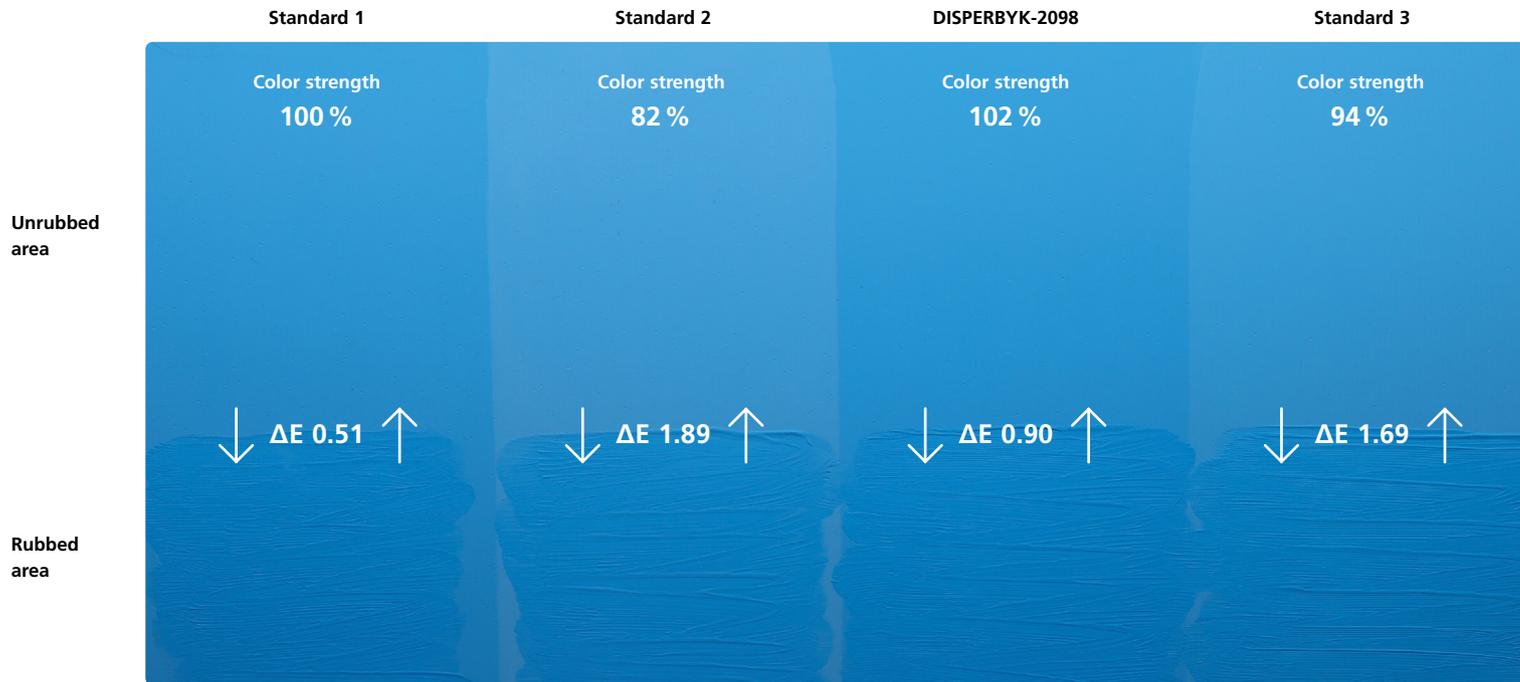
- Outstanding dispersion and stabilization of pigments, high pigment loading achievable
- Good viscosity reduction and storage stability in aqueous pigment concentrates
- Very broad compatibility in aqueous formulations
- Excellent color strength development
- Also suitable for inorganic pigments such as titanium dioxide or iron oxide red*

As a compatibilizer:

- Effective reduction of flooding and floating by improving the colorant acceptance
- Better color strength development

* For enhanced performance, the addition of a small dosage of BYK-154 is recommended.

DISPERBYK-2098 – Very good color strength development in aqueous architectural coating formulations



Test system: Colorant with pigment Heliogen® Blue L 7101F (PB15:4), 35% pigment load
Additive dosage: 30% s.o.p.
Base paint: Flat emulsion paint from retail store
Tinting: 97:3 (base paint: colorant)
Application: Draw down – 200 µm wet film onto black and white test cards, rub-up test
Measurement: Delta E-value and color strength were measured with spectro2go d:8°

Technical data

- Chemical composition:
Aqueous solution of polyethers
- Density (20 °C): 1.11 g/cm³
- Non-volatile matter (10 min, 150 °C): 90 %
- Solvent: water
- Delivery form: liquid

Applications

- Architectural coatings
- Wood and furniture coatings
- General industrial coatings
- Automotive coatings
- Floor coatings
- Marine and protective coatings



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