

TEGO® Dispers 651

pigment-wetting and dispersing additive

Effects

	0	1	2	3	4	5
Viscosity reduction with organic pigments/carbon blacks						
Color intensity/gloss with organic pigments/carbon blacks						
Viscosity reduction with inorganic pigments/fillers						
Color intensity/gloss with inorganic pigments/fillers						

0 = unsuitable...5 = highly suitable

Special features

For the manufacture of universal colorants. For inorganic and organic pigments. Very good reduction of viscosity. Also for architectural paints. Solvent- and APE-free.

Suitability for

waterborne	solventborne
●	○
2-pack 100 %	radiation-curing
○	○
direct grind	resin-based pigment concentrates
○	●
resin-free pigment concentrates	universal pastes
●	●

● = suitable ... ○ = not suitable

Solubility in

water	ethanol
●	○
TPGDA	butyl acetate
●	○
white spirit	
○	

● = clear soluble, ● = cloudy but stable, ○ = insoluble

Recommended addition level

As supplied calculated on inorganic pigment: 15 - 30 %

As supplied calculated on organic pigment: 50 - 80 %

As supplied calculated on carbon black: 50 - 100 %

Processing instructions

- Add to the grind before dispersion.
- To improve the compatibility and the viscosity of inorganic pigment concentrates the addition of TEGO® Dispers 652 has proven to be beneficial.
- For inorganic pigment concentrates the addition of the rheology modifiers (for example fumed silica) has proven to be beneficial.
- For the production of carbon black concentrates add a small amount of amine (0.2 - 3.0 %) to neutralize the partially acidic pigment surface.
- In case of foam build up during pigment dispersion use a highly effective but also compatible defoamer concentrate (for example TEGO® Foamex 8050, TEGO® Foamex 810, TEGO® Foamex 830).
- Starting point formulations for the production of pigment concentrates are available on request.

Formulation advices

Add to millbase before grinding. Alternative for higher color strength with organic pigments: TEGO® Dispers 650. Combination partner for stronger reduction in viscosity with inorganic pigments: TEGO® Dispers 652. Addition of TEGO® Foamex 8050 is recommended in cases where stronger foam development occurs.

Chemical description

modified polyether with groups of high pigment affinity

Technical information

- appearance	yellowish to brownish liquid
- active matter content	approx. 30 %
- solvent	water

Registration status

TEGO® Dispers 651 respectively its ingredients are listed in the following chemical inventories: ECL, EINECS, NDSL, PICCS, TSCA, NZIOC, TCSI.

All intentional ingredients are listed on the TSCA inventory or comply with the TSCA Polymer Exemption criteria according 40 CFR 723.

All intentional ingredients are listed on the ECL inventory or comply with the Polymer Exemption criteria.

All intentional ingredients are listed on the PICCS inventory or comply with the Polymer Exemption criteria.

Packaging

- plastic drum 50 kg
- plastic L-ring drum 200 kg
- container 1000 kg

Storage stability

When stored in an original unopened packaging between +4 and +40 °C, the product has a shelf life of at least 24 months from the date of manufacture.

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