

TEGO® Dispers 745 W

DESCRIPTION

TEGO® Dispers 745 W is a polymeric wetting and dispersing additive for waterborne formulations. Stabilizes organic and inorganic pigments and carbon blacks in industrial and transportation coatings. Shows excellent color strength development even with critical organic pigments.

KEY BENEFITS

- stabilization of critical organic pigments
- minimal impact on coating properties

EFFECT

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



SUITABILITY

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

● not suitable ● partly suitable ● suitable

TYPICAL APPLICATIONS

- Transportation coatings
- General industrial coatings
- Pigment concentrates
- Liquid Inks

TECHNICAL DATA

| | |
|--------------------------|--|
| acid value (as supplied) | Approx. 10 mg KOH/g |
| active matter content | approx. 40 % |
| appearance | yellowish, clear to slightly hazy liquid (product properties are not affected by haziness) |
| chemical description | solution of an organo-modified polyacrylate with groups of high pigment affinity |
| pH-value | approx. 8.5 |
| solvent | water / dipropylene glycol monomethylether / propylene glycol-n-butylether 30 : 4 : 1 |

SOLUBILITY

| | |
|-----------------|--------------|
| Water | Ethanol |
| ● | ● |
| TPGDA | Butylacetate |
| ● | ● |
| Mineral Spirits | |
| ● | |

● not soluble ● partly soluble ● soluble

RECOMMENDED ADDITION LEVEL

As supplied calculated on inorganic pigment: 4.0 - 35.0 %
 As supplied calculated on organic pigment: 20.0 - 8.0 %
 As supplied calculated on carbon black: 40.0 - 150.0 %
 Recommended addition level for co-grind: 0.3 - 2.0 %

PROCESSING INSTRUCTIONS

- Add to the grind before dispersion.
- For inorganic pigment concentrates the addition of the rheology modifiers (e.g. 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 (e.g. TEGO® Foamex 8050, TEGO® Foamex 810, TEGO® Foamex 830).
- Starting point formulations for the production of pigment concentrates are available on request.

HANDLING & STORAGE

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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