



Dear Readers,

In May you were able to obtain information on new Tego products from us at the Degussa stand at the European Coatings Show. Besides the chance to discuss the many new products, you were also able to reserve your personal copy of the third edition of the Tego Journal. If you missed this opportunity, you can order your copy via our website, www.tego.de, or through your usual business contact.

We are pleased to update you on our products for radiation-curing formulations at the RadTech in Vienna from 13th to 15th November, stand no. 20. This Tego Talk provides a foretaste with the introduction of TEGO® Dispers 685 for radiation-curing coatings and inks.

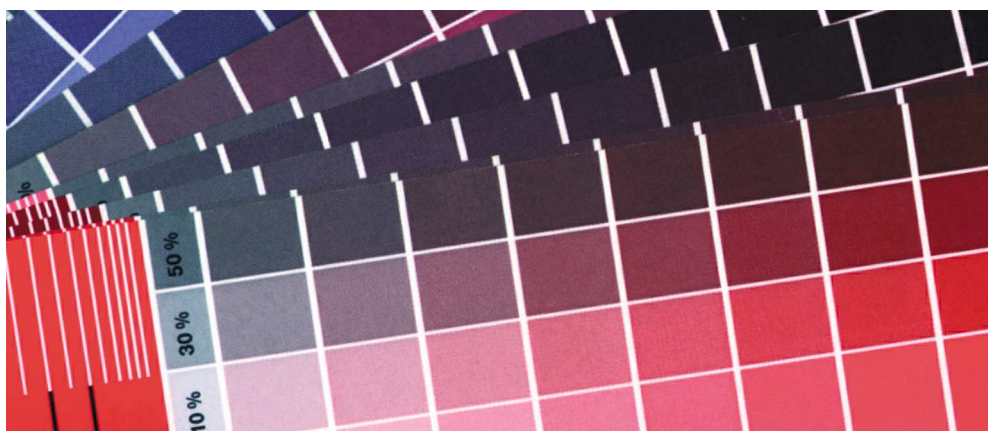
You will also find us at the Eurocoat in Genoa from 6th to 8th November. We look forward to welcoming you on our stand, no. D 67.

Thank you for your interest and enjoy reading Tego Talk!

Yours sincerely

Udo Dalig
Business Manager Europe

TEGO® Dispers 685 – a new high performance dispersing additive for radiation-curing printing inks and varnishes as well as solventborne formulations



For many years, the market for radiation-curing coatings and printing inks has grown considerably more than the sector as a whole. Radiation-curing pigmented formulations have shown the most dramatic growth but present a particular challenge to formulators when high pigment loadings must go hand in hand with good flow and low viscosity.

When using very fine-particle color pigments with a high specific surface area, such as carbon blacks and organic pigments, limits on pigment loading are soon reached. Above this limit, it does not seem possible to obtain free-flowing formulations. Counteracting this by simply adding organic solvent is here not an option. A further difficulty is that many of the pigments used result in very high thixotropic effects. The surface chemistry of the pig-

ments often results in inadequate development of color intensity. Up to now, commercially available products have been either solventborne, solid or do not generate the desired effect with certain critical pigments.

These problems can now be overcome thanks to a new high-performance wetting and dispersing additive specially developed to meet the requirements of such formulations: TEGO® Dispers 685.

TEGO® Dispers 685, is a dispersing additive especially for a wide range of organic and carbon black pigments and meets the highest technical requirements in the most diverse formulations.

TEGO® Dispers 685

- > effectively reduces viscosity thereby permitting high pigment loadings
- > increases color intensity helping to minimize pigment costs
- > is free from organic solvents
- > is liquid as a 100 % product and therefore easy to process and meter
- > exhibits good compatibility with common monomers and oligomers
- > is highly effective on a large number of pigments
- > guarantees long-term stability as far as rheology and color intensity are concerned.



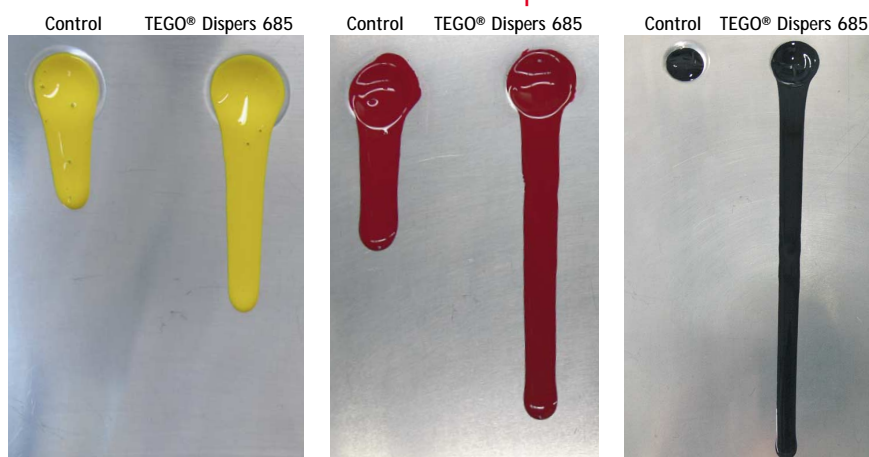
The versatility of TEGO® Dispers 685 is striking compared to that of conventional additives as it can be used both in solventborne formulations and for the manufacture of pigment concentrates.

Solventborne pigment concentrates are usually formulated with a grinding resin. By partially replacing the resin with TEGO® Dispers 685 in such formulations, the color intensity of the concentrate can be significantly increased.

A particular feature of TEGO® Dispers 685 is its high polymeric character. TEGO® Dispers 685 can also stabilize the pigment particles without adding a resin component thus permitting the formulation of binder-free concentrates. These resin-free concentrates are distinguished by their wide compatibility and high color intensity.

High performance and convincingly versatile, TEGO® Dispers 685 provides optimum color quality and meets the most stringent technical requirements.

Flow of UV flexo inks on an inclined plate:



TEGO® Dispers 685 achieves excellent results on the following pigments as well as with others:

Pigment type	Manufacturer	CI
in UV flexographic printing inks:		
Special Black 250	Degussa	PBk 7
Raven 450	Columbian	PBk 7
Irgalith Yellow BAW	Ciba	PY 13
Permanent Yellow DGR	Clariant	PY 126
Hostaperm Orange GR	Clariant	PO 43
Irgalith Rubin L 4BD	Ciba	PR 57
Permanent Red FGR 03	Clariant	PR 112
Irgalith Blue GLO	Ciba	PB 15 : 3
Irgalith Green GFNP	Ciba	PG7
Hostaperm Violet P-RL	Clariant	PV 23
in solventborne pigment concentrates (dispersion with Synthetic Resin UA):		
Special Black 4	Degussa	PBk 7
Bayferrox 130M	Bayer	PR101
Heliogenblue L7101F	BASF	PB 15 : 4
Irgazin DPP Red BO	CIBA	PR 254

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To request further information or samples please tick the appropriate box:

TEGO® Dispers 685

Product Overview

Tego Base 2005 Tego Journal Please contact me

= Sample = Data Sheet = Tego Additives = Tego Specialty Resins

Further information can be found under www.tego.de