### Without impairing coating properties:



Adhesion Flexibility



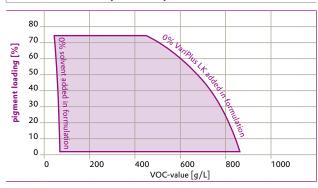
The new grinding resin is compatible with all common binders, with only minimal effect on coating properties.

- **Tested binder systems**
- ✓ short-oil alkyd resin

(at low temperature)

- ✓ medium-oil alkyd resin
- ✓ long-oil alkyd resin
- ✓ self-crosslinking acrylate
- ✓ 2-pack PU acrylate
- ✓ 1-pack polyester
- ✓ 2-pack polyester
- polyether
- ✓ poly-aspartic acid ester
- epoxy resin
- ✓ nitrocellulose
- ✓ urea-formaldehyde resin

## TEGO<sup>®</sup> VariPlus LK (93% solid)





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# **TEGO<sup>®</sup> VariPlus LK**



Evonik. Power to create.

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# TEGO<sup>®</sup> VariPlus LK: Lower VOC Content in Pigment Concentrates

Emission limits for volatile organic compounds (VOC) are being lowered worldwide. As a result, coatings formulators are increasingly limited in their choice of raw materials and hence their formulations.

TEGO<sup>®</sup> VariPlus LK, the new grinding resin, drastically lowers the VOC content in pigment concentrates for solventborne coatings and for the overall formulation. Until now, solventborne pigment concentrates have generally had a high VOC content, which affects the final VOC content of colored coatings. To reduce the high VOC content, Evonik has developed the grinding resin TEGO<sup>®</sup> VariPlus LK. This new resin reduces the viscosity of the concentrate, thus permitting optimized pigment loading. When used in combination with the dispersing additive TEGO<sup>®</sup> Dispers 676, the VOC content in the concentrate can be lowered by up to 75%. For the overall formulation, this means a VOC reduction of up to 100g/L when adding 20% concentrate.

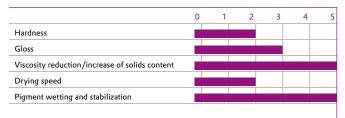
For the formulator, this means more formulation freedom, increased flexibility in the choice of raw materials, and greater color diversity.

TEGO<sup>®</sup> VariPlus LK is one of the first liquid grinding resins on the market. Until now, grinding resins have been supplied as granules which must be dissolved in a solvent. With TEGO<sup>®</sup> VariPlus LK, formulators will be able to eliminate this production step.

### Advantages of TEGO<sup>®</sup> VariPlus LK

- more formulation freedom
- increased flexibility in the choice of raw materials
- greater color diversity
- elimination of production step "dissolving"
- ultimate viscosity reduction with TEGO<sup>®</sup> Dispers 676

#### Area of application



0 = unsuitable ... 5 = highly suitable

