

Film enhancer

# TEGO® Variplus AP

## DESCRIPTION

TEGO® Variplus AP improves gloss and adhesion on various metals (e.g. steel, aluminium). As a solvent-free co-binder, it is recommended for high-solid industrial coatings and for UV-offset inks.

## KEY BENEFITS

- excellent viscosity reduction
- very good adhesion to metals
- reduction of volume shrinkage in radiation curing systems

## EFFECT

### Hardness



### Gloss



### Viscosity reduction / increase of solids content



### Pigment wetting and stabilization



### Adhesion improvement (e.g. metal, plastics)



## SUITABILITY

### waterborne solventborne



### radiation-curing pigmented coatings



### clear coatings



● not suitable ○ partly suitable ● suitable

## TYPICAL APPLICATIONS

- Wood coatings
- General industrial coatings
- High solid industrial coatings
- Printing Inks

## TECHNICAL DATA

active matter content	100 %
appearance	white pellets
chemical description	ketone-aldehyde condensation resin
glass transition temperature	Approx. 50 °C
hydroxyl value (as supplied)	approx. 5 mg KOH/g
solvent	-

## SOLUBILITY

### Water Ethanol



### TPGDA Acetone



### Butylacetate Mineral Spirits



● not soluble ○ partly soluble ● soluble

## RECOMMENDED ADDITION LEVEL

As supplied on total formula weight: 5 - 20 %

## PROCESSING INSTRUCTIONS

- Dissolve in corresponding solvent before use.
- Addition to the grind or during the let-down is possible.

## HANDLING & STORAGE

When stored in an original unopened packaging, the product has a shelf life of 60 months from the date of manufacture.

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH | Goldschmidtstraße 100, 45127 Essen, Germany | Telefon +49 201 173-2222 Telefax +49 201 173-1939 | [www.coating-additives.com](http://www.coating-additives.com)