

# **TIXOGEL-VP**

## **Gellant**

## **Product Data**

### **Recommended Use**

TIXOGEL-VP is a thixotropic and anti-settling agent for the following fields of application:

Non-polar to low polar systems
- Alkyd resin varnishes
- Road traffic paints

 $\cdot \ \, \text{Anti-fouling coatings} \qquad \quad \cdot \ \, \text{Printing Inks (mineral oil base)}$ 

· Oil varnishes · Dip-coating varnishes

Polyacrylate paints
Epoxy varnishes
Putty
Pitting a polyacrylate paints

Bitumen paintsStandard boat paintsPickling agentsLubricants

· Chloride and cyclo rubber paints

## Suitable solvents

Aromatic hydrocarbons such as toluene, xylene, solvent naphtha, styrene, aliphatic hydrocarbons such as white spirit, turpentine oil. To improve gelation of TIXOGEL-VP, aliphatic benzenes should contain approx. 5 % aromatic compounds.

## **Typical Properties**

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Colour: cream
Specific weight: 1.8 g/cm³
Bulk weight: 400-600 g/l
Residue on 90 µm screen: max 15 %
Primary particle size at complete dispersion: 1-5 µm
Water content: max. 3 %
Temperature resistance: 200-250 °C

## **Incorporation and Processing Instructions**

For optimum gelation, TIXOGEL-VP must be dispersed in the solvents using high shearing forces. An agitator operating at 1.000 to 3.000 rpm will generally be sufficient. First, an 8-10% parent batch is prepared, e.g. in solvent naphtha. After dispersion in this solvent (approx. 5-10 min. at 1.800 rpm), polar solvents are added for optimum gelation, e.g.:

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Depending on the consistency required, 2-8% of the parent batch (equivalent TIXOGEL-VP content 0.2-0.8%) are worked into the paint system. These preparations are then processed by cylinder mills, ball mills or agitators.

If TIXOGEL-VP is to be worked directly into a paint system then the product is first moistened with the above mentioned quantity of a polar solvent and then homogenized. The moistened TIXOGEL-VP is then stirred into the organic system by means of an agitator and subsequently is processed in a cylinder mill, ball mill or bead mill, or directly dispersed by an agitator producing high shear. Surface-active agents such as ANTI-TERRA-U can assist the working-in of TIXOGEL-VP. It must be ensured, however, that the surface-active agent used is compatible with the paint system and does not cause any perturbation. TIXOGEL-VP is resistant to dilute acids and alkalines.

# **Storage and Transportation**

Two years if stored dry in unopened, original packing at temperatures between 0 °C and 30 °C.