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## TECOSIT CT 5147

### Characterization

Styrene and acrylic copolymer for gloss paints, wood stains and corrosion protection primers

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### Chemical Structure

Copolymer based on styrene and acrylic acid ester

### Supplied Form

White dispersion

### pH Value

7.5 – 9.5

### Ionic character

Anionic

### Solid content

50 ± 2 %

### Viscosity

2000 – 4000 mPas (Brookfield RV, spindle:3, 20 rpm)

### Specific Weight at 20 °C

Approx. 1.05 g/cm<sup>3</sup>

### Minimum Film Forming Temperature

Approx. 0 °C

### Glass Transition Temperature (Tg)

-12 / 48 °C

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## Properties

### Film properties

TECOSIT CT 5147 forms clear and tack-free films.

## Application

### Areas of application

Due to its good anti-blocking properties, TECOSIT CT 5147 can be used for the production of gloss paints and wood stains.

TECOSIT CT 5147 is suitable for applications required a good wet adhesion, high resistance against ageing and mechanical stress and alkali.

To prevent possible mud crack formation, care must be taken on high porous substrates.

## Processing

TECOSIT CT 5147 forms tack-free films which has a good wet adhesion and elasticity.

Usual fillers, titanium dioxide and coloured pigments can be used in the paint formulations. We recommend to use AGOCHEM D type dispersing agents to obtain good dispersing properties. Wetting agents can also be used. The additions are between 0.3 – 1.0 %.

Various thickeners like associative acrylic or PU thickeners can be added to emulsion paints in order to adjust their viscosity and workability.

Defoamers can be added into paint formulations in order to prevent excessive foaming. To select the most suitable defoamer grade and concentration, trials must be carried out.

Due to low MFFT of TECOSIT CT 5147 only low amounts of coalescing agent is needed for paint formulations.

Compatibility and efficiency of additives should be tested before additions.

## Storage

We recommend not exceeding a storage time of 6 months. As far as possible, storage should be at a uniform temperature in the region of 5 - 25°C. TECOSIT CT 5147 should be kept away from frost and direct exposure of sunshine. Opened containers must be tightly closed again. Because of film forming nature of product, skins and lumps formation could be observed during storage. It is advisable to filter or sieve the product before using it.

The dispersion contains some initial preservatives to prevent attack by microorganisms. During further storage in opened drums or storage tanks a suitable preservative should be added despite our preliminary preservation measures. The compatibility and efficiency of the preservatives should be checked before addition.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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