
TECOSIT AC 1546

Characterization

Acrylic copolymer for hard surface applications

Chemical Structure

Acrylic copolymer in aqueous dispersion

Supplied Form

White emulsion

pH Value

5.0 – 7.0

Ionic character

Anionic

Solid content

44.5 – 47.5 %

Viscosity

400 - 2500 mPa.s (Brookfield LV, spindle:1, 50 rpm)

Specific Weight at 20 °C

Approx. 1.05 g/cm³

Minimum Film Forming Temperature

Approx. 23 °C

Glass Transition Temperature (Tg)

28 / 100 °C

Properties

Film properties

TECOSIT AC 1546 forms clear, hard, brittle, tack-free films

Application

Areas of application

We recommend TECOSIT AC 1546 especially for the production of enamels, clear varnishes and pigmented coatings. Due to its good scratch resistance and anti-blocking properties TECOSIT AC 1546 can be used for clear coating formulations.

The flexibility and adhesion properties can be improved by blending with other polymer emulsion like polyurethane.

TECOSIT AC 1546 can also be used for low pigmented cement coatings.

Processing

TECOSIT AC 1546 can be combined with titanium dioxide, coloured pigments and filler for paint formulations. We recommend long term storage trials to ensure adequate stability. Salts of low molecular weight polyacrylic acids like our AGOCHEM D Series are recommended as dispersing agents. Wetting agents can also be used. The additions are between 0.3 – 1.0 %.

To adjust rheological properties of the emulsion various thickeners like associative acrylic or PU thickeners can be added. To lower the minimum film-forming temperature, additional coalescent agent is recommended.

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

It is important to test compatibility and efficiency of additives before additions.

Storage

We recommend not exceeding a storage time of 12 months. As far as possible, storage should be at a uniform temperature in the region of 5 - 35°C. TECOSIT AC 1546 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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