

Technical Information

TEGOTEX® RT 1010

Product description

TEGOTEX® RT 1010 is a reactive organo-functional polysiloxane used as a hydrophobization agent in the leather industry.

Due to the carboxy end groups TEGOTEX® RT 1010 can be used as a reactive component to modify bulk properties of polymers.

Physical Properties

Appearance	liquid, clear
Active matter	100 %
Acid no. [mg KOH/g]	40-50
Viscosity (25 °C) [mPas]	800-1400

Application

TEGOTEX® RT 1010 is applied in the leather wet-process as a high-performance hydrophobizing component in post-tanning, dyeing or fat liquoring formulations for chrome tanned leather (wet blue).

With the reaction of its carboxy functional groups TEGOTEX® RT 1010 can also be introduced permanently in suitable polymers.

Benefits

By use of formulations based on TEGOTEX® RT 1010 in the wet-process of leather manufacturing the following benefits are provided:

- improved emulsion stability of the formulation for storage and the application process
- outstanding hydrophobization of the leather substrate
- permanent hydrophobization of the treated leather
- generate a very good soft handfeel on leather, especially on shoe leather

The reactive modification provides the polymer with the typical properties of a siloxane. This results in the following advantages:

- improved flexibility, even at low temperatures
- tack-free properties by release effect
- improved melt flow rates during processing
- improved moulding flow

Dosage

TEGOTEX® RT 1010 is currently added to leather wet-process formulations at a level between 4 - 12 %.

The formulation containing TEGOTEX® RT 1010 is added at a level of about 5 % on skin/hide weight. In polymers the amount used depends on the required properties. The concentration can range from 3 - 30 weight-% based on polymer.

Formulation Example

Acryl Resin, 65%	22,6 %
TEGOTEX® RT 1010	10,0 %
Paraffine Oil	10,0 %
Oleyl Sarcosinic acid	10,0 %
Butylglycol	13,0 %
Monoethanolamine	1,0 %
Water	33,4 %

Registration

The components of TEGOTEX® RT 1010 are listed in the following chemical inventories:

EINECS

Packaging

200 kg plastic drum

Pallet size: 4 x 200 kg = 1 pallet

Storage stability

12 months in original sealed containers at room temperature.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

The product does not contain, as per recipe, any SVHC above the threshold limit of 0.1 %.

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