KAUTSCHUK-GROUP

Kagebond® - DM 50

Technical Data Sheet

Kagebond® - DM 50

Chemical name: 50 % aqueous dispersion of Kagebond ® DM-100, an urethane prepolymer produced by reaction of methylene-bis-(4-phenylisocyanate) with epsilon-caprolactame

CAS Number: 54112-23-1

EINECS Number: 258-981-8

Kagebond® DM-50 is a non-hazardous aqueous dispersion of a caprolactam-blocked methylene diisocyanate which is used as an adhesion promoter for rubber to textile bonding.

Caprolactam blocked MDI is widely used for the treatment of polyester tyre cord and the treatment of reinforcing fabric for i.e. conveyor belts.

Kagebond® DM-50 is a new adhesion promoter, made in Germany under a unique solvent-free production process. Kagebond® DM-50 sets the standard in particle size, stability, and ecological harmlessness.

Application

Kagebond® DM-50 is used as a technical auxiliary in combination with RFL (resorcinol-formaldehyde-latex) for surface treatment of technical yarns and fabrics. It is extremely efficient for improving the polyester/rubber adhesion in polyester tyre cord and reinforcing fabric in technical rubber products such as conveyor belts, etc.

It can be used in the single dip method as an additive to the RFL-bath or in the double dip method as a pre-dip. Kagebond® DM - 50 is stable at temperatures < 150°C and cured in most applications at 220 - 240°C.

For further information please call our technical service.

Material Definition

Appearance: White liquid dispersion

Molecular Weight: 476.56

Solids: 50/ -2%

Viscosity (flow time) (25°C): 60 sec max. (EN ISO 2431, 4 mm flow cup)

Density: 1,12 g/cm3

Miscibility: In water at any ratio

Handling, Storage and Packaging

Kagebond® DM-50 is stable for at least one year when stored in sealed original packing at temperatures between 5°C and 30°C without exposure to sunlight. Not frost resisting! Stir up before using!

Standard pack size is in 1 ton plastic containers (Schuetzcontainer); it also can be supplied in 200 kg plastic drums or 22 kg plastic canisters.

Regulatory Information

EU REACH registered: Yes

Availability

- APAC (Asia-Pacific)
- ANZ (Australia, New Zealand)
- EU (European Union)
- PRC (People's Republic of China)
- UK (United Kingdom)

Disclaimer / Conditions

Revision: 2023-11-03 / d276

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Stated storage and shelf life times are minimum guaranteed values for a period starting on the day of shipment. After this period has expired, the product requires additional quality control testing but may very well still be within specification. For more

information, refer to our Shelf Life Policy.

For updates on product information, please check this web page regularly:
https://kautschuk.com/products/rubber/kagebond-dm-50