Xytu® BT450
Water Repellent for Silicone Resin Coatings

Product Description

Xytu® BT450 is an aqueous emulsion of a modified polysiloxane resin used as a co-binder in silicone resin coatings. The resulting coatings combine strong water repellency with high water vapor permeability. Because of its alkali resistance, Xytu® BT450 can be used in coatings containing sodium silicate.

Technical Data

Property	Value
Appearance	Milky white
Active content	Approx. 50%
pH	Approx. 9
Specific gravity at 20 °C	Approx. 1 g/cm³

Features

- Strong water repellency
- High water vapor permeability
- High early water resistance
- Low dirt pickup
- Film-forming
- Solvent-free
- Effective at low dosages
- Alkali-resistant

Applications

During manufacture, add Xytu® BT450 to water-based coating systems at the following dosages:

Coating system	Dosage
Silicone resin paint	4%-10%
Silicone resin-modified paint	2%-4%
Silicone resin render	2%-6%
Silicate/silicone resin render (Si/Si)	2%-4%

The above dosages are based on the total formulation.

Packaging

Available in 60 kg and 120 kg plastic drums. Packaging can be customized to customer requirements.

Transport, Storage and Use Precautions

This product is sensitive to frost and heat. Store indoors in a cool, ventilated and dry place, protected from sunlight and rain. Do not store below 0 °C or above 40 °C, as this may cause irreparable damage.

If frost or heat damage is suspected, check the product for suitability before processing. Stir thoroughly before use to ensure a uniform mixture.

Shelf Life

The shelf life of Xytu® BT450 is one year when properly stored and unopened. After the shelf life has expired, the product may still be used if testing confirms that it meets these technical specifications.