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Acronal® NX 4623

Chemical Nature **Aqueous acrylate copolymer dispersion for mortar modification**

Properties

Typical Properties

Solids content	%	~ 47.0
pH		~ 10.0
Viscosity at 23 °C (Brookfield RV, Spindle #4, at 50 rpm)	mPa s	~ 100 – 1200

Other properties of the dispersion

Density	lbs/gal	ca. 8.71
Dispersion type		Anionic
Stability in mortar/cement		Excellent
Freeze-Thaw Stability (tested at 15% solids, 1 cycle; freeze at 10 °F 16 hrs, thaw 8 hrs)		Good

Properties of the film

Appearance		Translucent
Surface		Non-tacky
Glass transition temperature Tg (DSC)	°C	ca. 12
Mechanical strength*		
Tensile strength	psi	ca. 925
Elongation at break	%	ca. 400

* These typical values should not be interpreted as specifications.

Application

Features

Acronal NX 4623 is recommended for use in mortar patching or spraying applications. Admixture compositions formulated with Acronal 4623 show excellent high temperature open time stability with many types of cement, entrain low air, and provide excellent freeze/thaw stability. Acronal 4623 is also recommended for use in cementitious ceramic tile thin-set adhesives, modification of mortars and cement repair systems. Mortar compositions modified with Acronal 4623 exhibit better flexural, tensile strengths and show increased resistance to water permeability relative to unmodified mortar compositions.

Processing

Acronal NX 4623 already contains an anti-foam for use in combination with hydraulic binders. If additional antifoam is required, it is advisable to carry out trials with 0.3 - 1% Lumiten® E-L, or similar defoamers.

In order to achieve adequate stability on prolonged storage, it is advisable to add a small proportion of a suitable preservative to the products produced with Acronal NX 4623 The suitability of the preservative must be determined by trials and checked at regular intervals.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Storage

Please refer to the “Handling and Storage of Polymer Dispersions” brochure.

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