

Acronal[®] NX 4612 X

Hydrophobic binder for water resistant coatings

Chemical Nature

Proprietary acrylic copolymer dispersion

**Typical Properties
(not specifications)**

pH		~ 8.0
Viscosity at 23 °C (Brookfield RV, Spindle #2, at 20 rpm)	cps	~ 40 – 400
Solids	%	~ 45.5 – 47.5

**Other properties of
the dispersion**

Density at 23 °C	g/cm ³	ca. 1.035
Freeze/thaw resistance		not stable
Dispersion type		anionic
Particle size	nm	ca. 85

Properties of the film

Appearance		clear
Surface		non-tacky
Flexible		slightly
Glass transition temperature T _g (DSC)	°C	ca. 13
Water absorption after immersion (After 24 hours)	%	ca. 3

* These values should not be taken as specification

Applications

Features

Acronal NX 4612 X is an aqueous dispersion that has been developed for use as a hydrophobic binder for external gypsum board coatings. This dispersion may be suitable for other applications that require significant water resistance.

Acronal NX 4612 X can tolerate high loadings of typical mineral-based fillers that are commonly used in exterior coatings (calcium carbonate, kaolin, talc and mica).

All users are encouraged to determine the suitability of Acronal NX 4612 X for their own particular applications.

Processing

We recommend adding a preservative to adhesives and coating materials that contains Acronal NX 4612 X to protect them from microbial attack, particularly if their pH lies in the neutral range. The suitability of such additives must be verified and monitored in trials.

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.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal NX 4612 X.

Storage

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

Important

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