

Acronal® 4074 X

Chemical Nature

Aqueous styrene-acrylate copolymer dispersion for the manufacture of construction grouts, adhesives and waterproofing membranes

Solids content pH	%	ca. 45 ca. 7.5
Viscositv at 73 °F	CDS	ca. 350
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Density at 23 °C	lbs/gal g/cm³	8.6 1.03
Type of dispersion	J	anionic
Particle Size	nm	< 100
Odor		Low
Neutralization		No ammonia added
Freeze-thaw stability	0 °F	not stable
	pH Viscosity at 73 °F (Brookfield RV, Spindle #2 Density at 23 °C Type of dispersion Particle Size Odor Neutralization	pH Viscosity at 73 °F cps (Brookfield RV, Spindle #2, at 20 rpm) Density at 23 °C lbs/gal g/cm³ Type of dispersion Particle Size nm Odor Neutralization

Application

Glass transition temperature

Surface

(DSC)

Properties

Features

Properties of the film

Acronal 4074 X is a low odor, APEO-free, fine particle size copolymer dispersion recommended for the production of construction grouts, adhesives and waterproofing membranes. Due to its high glass transition temperature (Tg), a film forming aid is required in formulations to ensure desired polymer particle coalescence (i.e. film formation). Dry films produced from Acronal 4074 X are strong and highly water resistant.

°C

tack-free

ca. 37

Processing

Although Acronal 4074 X is protected from attack by microorganisms, preservatives must be added to the produced formulations in order to ensure that their quality remains unimpaired over long storage periods. Prior experiment is essential for checking their compatibility and efficiency.monobutyl ether acetate, butoxyethyl acetate, Texanol®, or mixtures of these materials. Diethylene glycol monobutyl ether and Texanol®, for example, simultaneously prolong the open assembly time.

Lower alcohols and glycols improve the resistance to frost, but generally do not reduce the film-forming temperature.

Although Acronal 296 D na already exhibits high viscosity characteristics, a thickening agent is generally added for adjusting the viscosity of the end product. Polyacrylic acid types (e.g. Latekoll® D), Collacral® VL, Collacral® PU, cellulose ethers or other mineral thickening agents can be used for this purpose. These products not only increase the yield point, but also impart more or less pronounced pseudoplasticity to the end products.

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 4074 X.

Storage

Storage should be in accordance with the "Handling and Storage of polymer dispersions" brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request.

Important

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