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Styrofan® ND 614

Chemical Nature **Aqueous styrene-butadiene copolymer dispersion for use in concrete modification.**

Properties

Typical Properties	Solids content	%	47.5 – 49.0
	pH		9.5 – 10.5
	Viscosity at 23 °C (Brookfield LVT, Spindle #1, at 20 rpm)	mPa s	ca. 38
Other properties of the dispersion	Surface Tension	dynes/cm	ca. 32
	Specific Gravity	lbs/gal	ca. 8.5
		g/cm³	ca. 1.01
	Bound Styrene	%	ca. 66
	Average Particle Size	µm	ca. 0.2
	Dispersion type		anionic
	Coagulum (100 mesh)	Wt. %	< 0.1
	Sensitivity to frost	cycles	ca. 2
Properties of the film	Glass transition temperature Tg (DSC)	°C	ca. 6
	Mechanical strength*		
	Tensile strength	psi	ca. 600
		N/mm²	ca. 4
	Elongation at break	%	ca. 200
	Appearance		slightly yellow, transparent
	Surface		tack-free

* The above values should not be taken as specification

Application

Fields of application Styrofan ND 614 is used mainly for modifying concrete mixtures. The addition of Styrofan ND 614 to conventional unmodified concrete mixtures reduces the amount of water required for the placement of the mix. The lower water typically results in a cured concrete with higher compressive strength. The polymer forms an elastic membrane throughout the matrix of the cured concrete, reducing the formation of voids and hairline cracks therein. Moreover, the resulting concrete mixture shows improved resistance to the penetration of oil, salts and aids in the adhesion of the new concrete to old. Flexural strength and abrasion resistance are also increased.

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 Styrofan ND 614.

Storage

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

Important

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