

Butonal[®] NS 175

Aqueous polymer dispersion for modifying asphalt cements

Chemical Nature

High solids, cold polymerized anionic styrene-butadiene dispersion

Properties

Typical Properties

Solids content	%	~ 71.0
pH		~ 10.5
Viscosity (Brookfield RVT, Spindle #3, at 20 rpm)	mPa s	~ 1000 – 1500

Other properties of the dispersion

Bound styrene	%	24
Residual monomer	%	0.08 max.
Surface tension	mN/m	34
Specific gravity		0.94
Antioxidant		none
Glass transition temperature (DSC)	°C	-58
Weight/volume	lb/gal	7.8
	kg/l	0.94

Application

Features

Butonal NS 175 is a mechanically stable dispersion which disperses readily in asphalt cements. It is used to modify asphalt cements when used in hot mix and chip seal applications.

Processing

Some separation is possible during storage due to the specific gravity and particle size distribution of these dispersions. For drum and tote bin shipments, periodic mechanical stirring may be required to maintain a homogeneous mixture.

Generally, the preferred means of agitation is with a separate propeller type stirrer. This low-speed, low-shear mechanical stirrer can be located off-center, set at an angle, or side mounted near the bottom to prevent foaming or vortexing. Center stirring is only recommended for bulk shipments and requires tank baffles. It is recommended that the material be agitated for 10 - 20 minutes every 24 hours when the material is being used in production. Seal any residual material tightly and use as soon as practical.

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 Butonal NS 175.

Storage

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

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