

Construction

Technical Data Sheet

Butonal[®] NS 198



Chemical Nature **Aqueous, high solids, cold-polymerized, cationic styrene-butadiene dispersion for modifying cationic asphalt emulsions**

Properties

Typical Properties	Solids content	%	~ 64.0
	pH		~ 5.3
	Viscosity (Brookfield RVT, Spindle #3, at 20 rpm)	mPa s	~ 250 – 2000
Other Properties of the dispersion	Bound styrene	%	24
	Residual monomer	%	0.08 max.
	Density	lbs/gal	8.10
	Glass transition temperature (DSC)	°C	-53

Applications

Features Butonal[®] NS 198 is a mechanically stable latex polymer dispersion that is readily incorporated into cationic asphalt emulsions through addition to the soap solution (batch process) or co-milling (continuous process).

Applications Butonal[®] NS 198 is used in the following applications:

- Chip seal
- Slurry seal
- Micro-surfacing
- Tack coat
- Open and dense-graded cold mixes
- Cold-patching material
- Emulsion crack filler

Butonal[®] NS 198 can also be used to modify hot asphalt cements in order to meet Superpave[®] “Plus” modified binder specifications as well as to provide improvements in conventional properties such as increased softening point and decreased penetration.

Processing Periodic mechanical stirring is required to maintain a homogeneous mixture. Some separation is possible due to the specific gravity and particle size distribution of this latex polymer dispersion.

Generally, the preferred means of stirring 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 tank bottom to prevent latex foaming or vortex formation. Center-stirring requires tank baffles. It is recommended that material be agitated for 10 - 20 minutes every 24 hours in storage.

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.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Butonal® NS 198.

Storage

Butonal® NS 198 has a shelf life of six months from delivery date, provided it is stored 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.

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