

# Butonal<sup>®</sup> NX 1129

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

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## Properties

<b>Typical Properties</b>	Solids content	%	~ 70.0
	pH		~ 10.4
	Viscosity (Brookfield RV, Spindle #3, at 20 rpm)	mPa s	1000 – 2000
<b>Other Properties</b>	Bound styrene	%	24
	Residual monomer	%	0.08 max.
	Antioxidant		none
	Glass transition temperature (DSC)	°C	-53
	Weight/volume Specific gravity	lbs/gal	~ 8.16 ~ 0.98

\* The above values should not be taken as specification.

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## Application

**Features**                      Butonal NX 1129 is a novel latex polymer dispersion designed to be mixed with asphalt cement to produce a highly elastic modified binder with long term storage stability. It can be used to modify asphalt cement in order to meet Superpave<sup>®</sup> "Plus" modified binder specifications as well as to provide improvements in conventional properties such as increased softening point and decreased penetration.

Butonal NX 1129 can also be incorporated into anionic asphalt emulsions via addition to the soap solution (batch process) or co-milling (continuous process).

**Applications**                      Butonal NX 1129 is used in the following applications:

- PG-graded binders
- Chip seal
- Slurry seal
- Below-grade foundation waterproofing
- Industrial emulsions

**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.

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## 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 NX 1129.

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## Storage

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

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BASF Corporation  
Dispersions and Resins  
11501 Steele Creek Road  
Charlotte, North Carolina 28273  
Phone: (800) 251 – 0612  
Email: [CustCare-Charlotte@basf.com](mailto:CustCare-Charlotte@basf.com)  
Email: [edtech-info@basf.com](mailto:edtech-info@basf.com)  
[www.basf.us/formulation-additives](http://www.basf.us/formulation-additives)