

# Construction

## Technical Data Sheet

### Acronal® NS 567



#### Chemical Nature

Aqueous styrene-acrylate copolymer dispersion for the manufacture of coatings and primers

#### Properties

##### Product specification

Solids content	%	~ 50.0
pH		~ 8.5
Viscosity at 23 °C (Brookfield RV, Spindle #5, at 50 rpm)	mPa s	~ 3000 – 7500

##### Other properties of the dispersion

Density	lbs/gal g/cm <sup>3</sup>	ca. 8.67 ca. 1.04
Average particle size	µm	ca. 0.1
Film-forming temperature	°F °C	ca. < 33 min. ca. < 1 min.
Dispersion type		anionic
Plasticizer content		free from plasticizer
Sensitivity to frost	°F °C	below 32 below 0

##### Properties of the film

Density	g/cm <sup>3</sup>	ca. 1.08
Glass transition temperature T <sub>g</sub> (DSC)	°C	ca. -6
Water absorption (After 24 hr immersion in water)	%	ca. 11
Mechanical strength*		
Elongation at break (at 23 °C)	%	ca. 2000
Tensile strength	psi	140
Appearance		clear, transparent
Surface		tacky

\* This figure should be taken for comparison purposes only. All that can be obtained from it is an idea of the magnitude concerned.

#### Applications

##### Fields of application

Acronal® NS 567 is an aqueous polymer dispersion for the manufacture of flexible roof coatings (slope > 2°, non-ponding conditions), elastomeric coatings, architectural paints, textured finishes and primers for mineral substrates.

##### Processing

Acronal® NS 567 has good filler compatibility and pigment binding capacity. The unpigmented film is tacky at room temperature, clear, very flexible, water-resistant and resistant to saponification.

Emulsion paints are manufactured in the usual manner with the aid of high-speed dispersers. It is recommended that the pigments and fillers first be dispersed with dispersing and wetting agents such as Pigment Disperser A or Pigment Disperser N and water-soluble polyphosphates. The pigments and extenders should only be dispersed directly into Acronal® NS 567, if the end products are of high viscosity (e.g., textured finishes) and the mixers run at low speeds.

In general, thickeners have to be added to regulate the viscosity and facilitate application. The most suitable thickeners are cellulose ethers, either by themselves or in combination with inorganic compounds (montmorillonite, highly dispersed silicates), polyacrylates or diurethanes.

In the presence of pigments, particularly those in the form of pigment preparations (e.g. Luconyl® types), some thickeners may be responsible for pigment flocculation or the formation of serum. It is therefore advisable to carry out storage trials and compatibility tests, adding nonionic surfactants (Lumiten® N types) if necessary.

Although Acronal® NS 567 forms a continuous film above 33 °F (1 °C); it is recommended that a small quantity of coalescent be added to those paints, textured finishes and mixtures that are highly pigmented. Mineral spirit containing aromatics, glycol ethers, Lusolvan® FBH and Texanol® are suitable. A high-boiling, water miscible solvent such as propylene glycol may be added to improve the wet edge time.

In common with all other fine particle size dispersions, Acronal® NS 567 tends to foam. As a consequence, defoamers should be incorporated. They should be added in the amounts recommended by the manufacturers (i.e. about 0.3 - 1%), and their efficiency should be checked by prior experiment. Although Acronal® NS 567 is protected from attack by microorganisms; preservatives must be added to the made-up paints in order to ensure that their quality remains unimpaired over long storage periods. Again, prior experiment is essential for checking their compatibility and efficiency.

---

## 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 work place, good skin care, and wearing of protective goggles.

### Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Acronal® NS 567.

---

## Storage

Acronal® NS 567 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.

---

## Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

*Acronal is a registered trademark of BASF Group.*

© BASF Corporation, 2015



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico.  
For more information on Responsible Care® goto:  
U.S.: [www.basf.us/responsiblecare\\_usa](http://www.basf.us/responsiblecare_usa)  
Canada: [www.basf.us/responsiblecare\\_canada](http://www.basf.us/responsiblecare_canada)  
México: [www.basf.us/responsiblecare\\_mexico](http://www.basf.us/responsiblecare_mexico)

BASF Corporation  
Dispersions and Pigments  
11501 Steele Creek Road  
Charlotte, North Carolina 28273  
Phone: (800) 251 – 0612  
Email: [edtech\\_info@basf.com](mailto:edtech_info@basf.com)  
[www.basf.us/dpsolutions](http://www.basf.us/dpsolutions)