

Construction Polymers and Additives

Offering a world of innovative
solutions for the construction industry



 **BASF**

We create chemistry

BASF - We create chemistry

At BASF, we create chemistry

About BASF's Dispersions & Resins Division

The dispersions & resins division offers a world of endless solutions that utilize cutting edge technologies to provide your business with a competitive advantage and a sustainable future. From enhanced product performance to innovative new product development, BASF will help increase your margins, improve your profitability, and position your company as an industry leader. For additional information on how your business can utilize BASF technology, innovation, formulation expertise and marketing please contact us at 1-800-251-0612 or visit us at www.basf.us/dpsolutions.

Our commitment

Substantial investments in the development of new products, technologies and testing methods for customer driven innovations is our commitment to helping our customers succeed. With our broad and unique product portfolio, we aim to meet and exceed the highest market demands. Through our innovative excellence and research competence, we set new standards and market trends.

Depth provides quality, reliability, and consistency

BASF has a widely integrated supply chain from the oil well to the final product. Customers benefit from our diverse products and capabilities that provide a secure supply of high quality products, an advantage hard to find anywhere else. BASF puts continuous efforts into process improvements, new processes, and new production technologies to maintain or further improve our high quality. Our customers can simply expect more than the status quo.

The global innovation across BASF creates a one-of-a kind network to share information and meet customer demands. With local integration, we are familiar with regional needs, and our global network helps find solutions to local market demands. Our manufacturing facilities are located around the globe

REACH and GHS

As a member in the international Responsible Care initiative and as one of our company's responsibilities, BASF is committed to ecological sustainability. In supporting the legislative authorities' world-wide in their efforts to ensure the safety of our environment and human health, we are well prepared for new safety standards; BASF has implemented REACH (Registration, Evaluation and Authorization

of Chemicals) and GHS (Global Harmonized System) guidelines in production and supply chains. Our experts are available to consult with customers and partners implementing important safety standards.

Innovation and services

Through close collaboration with our customers, BASF works to meet their most demanding industry standards. We provide customers with analytical, technical, and supply chain services in a broad range of industries to be your raw material solution provider in:

- Flooring
- Roofing
- Air Barriers
- Sealants and Caulks
- Asphalt Modification
- Bridge Decking
- Coatings
- EIFS
- Gypsum
- Ceramic Tile
- Construction Adhesion

- Waterproofing Membranes
- Cement and Mortars

BASF and the Construction Polymers group

By bringing all parts of the production process together – from R&D to logistics and servicing – BASF offers end-to-end solutions for the construction industry from a single source. Whether you need dispersions, resins, or additives, we have a complete and integrated product portfolio for you to choose from.

Broad technology portfolio

At BASF, we focus on your needs and offer a depth and breadth of technological knowledge. Our crossfunctional teams have expertise in chemistries for construction, such as:

- Acrylic, styrene acrylic and styrene butadiene dispersions
- Formulation and performance additives
- Antioxidants and biocides



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Unique performance attributes

At BASF, we work with you to understand the performance challenges you face with your customers. That's why we develop innovative solutions that address a multitude of performance attributes, such as:

- Superior mechanical properties
- Chemical resistance
- Corrosion resistance
- Dirt pick up resistance
- Low VOC
- Weatherability
- And many more

Service capabilities

Our business services and technical teams from Charlotte, NC location serve the needs of our customers by offering:

- Formulation support
- Global R&D and sourcing capabilities
- Regulatory support and product stewardship





Acrylic Dispersions

BASF is the leading global supplier of acrylic dispersions which are specially engineered for the construction industry. Acronal® brand products are designed to deliver high performance in a variety of areas, such as: roofing, flooring, waterproofing membranes, asphalt, construction adhesives, caulks and sealants, and many more. The diverse range of products in our portfolio helps to advance our customers' formulations and ensure continued success.

Our Acronal® products cover a wide range of construction industries. Here are some ways how our products enhance your formulations.

- Sustainable solutions and environmentally friendly polymers
- Pass numerous specifications like ASTM C 920, ASTM C 834, and ASTM D 6083
- Exhibit high performance and boost excellent mechanical properties

Products at a glance

- Acronal® acrylic dispersions



Acrylic Dispersions

Typical properties

Product	Tg (°C)	Solids (%)	pH	Viscosity (cps)	Density (lb/gal)	Monomer Type
Acronal® NX 2160	-58	64	4.0	750	8.4	Acrylic
Acronal® 5028	-55	55	7.5	150	8.7	Acrylic
Acronal® 81 D na	-46	60	5.0	3,000	8.5	Acrylic
Acronal® A 220 na	-45	60	7.7	300	8.5	Acrylic
Acronal® A 280	-43	69	4.8	1,200	8.4	Acrylic
Acronal® A 200	-43	70	7.3	300	8.7	Acrylic
Acronal® V 210 na	-40	69	5.0	650	8.4	Acrylic
Acronal® N 284	-40	53	5.0	350	8.4	Acrylic
Acronal® 3633	-35	60	7.5	350	8.7	Acrylic
Acronal® V 278	-34	65	4.5	250	8.8	Acrylic
Acronal® 4034	-33	60	7.5	250	8.6	Acrylic
Acronal® NX 3250 M	-33	55	9.0	200	8.6	Acrylic
Acronal® V 275 na	-32	65	4.5	350	8.8	Acrylic
Acronal® 5036 X	-30	60	7.0	700	8.5	Acrylic
Acronal® 4511	-29	60	7.3	200	8.7	Acrylic
Acronal® MX 3250	-28	55	7.7	300	8.7	Acrylic
Acronal® 4250	-28	55	7.7	300	8.6	Acrylic
Acronal® NX 4236	-28	57.5	7.8	11,500	8.5	Acrylic
Acronal® 4081	-24	61	5.0	1,750	8.7	Acrylic
Acronal® 4848	-24	55	8.8	350	8.7	Acrylic
Acronal® A 378	-22	62	6.2	250	8.8	Acrylic
Acronal® 4311	-21	55	5.5	600	8.7	Acrylic
Acronal® 5442	-15	53.5	7.0	75	8.5	Styrene Acrylic
Acronal® NX 4404	-12	60	4.8	450	8.7	Styrene Acrylic
Acronal® 4920 X	-10	63	5.0	400	8.9	Acrylic
Acronal® 4567 M	-8	55	8.5	800	8.7	Styrene Acrylic
Acronal® 5400	-8	57	6.5	300	8.6	Styrene Acrylic
Acronal® 4420	-6	50	5.0	125	8.9	Acrylic
Acronal® S 400 na	-6	57	8.0	500	8.6	Styrene Acrylic

Features

<p>Flooring adhesive binder with high tack, peel strength, and adhesion to hydrophobic substrates, APEO and ammonia free with low VOCs</p>
<p>Cementitious waterproofing membrane binder with high flexibility, low temperature crack-bridging and cement compatibility. Ammonia and APEO free</p>
<p>Flooring adhesive binder with high cohesive strength, plasticizer resistance, and good filler acceptance. Ammonia free</p>
<p>Acrylic flooring PSA with excellent water resistance and good polyolefin adhesion. Ammonia free</p>
<p>Flooring pressure sensitive adhesive binder with high solids, adhesion and tack. Low formaldehyde, low VOCs. APEO and ammonia free</p>
<p>Internally plasticized, low Tg Acrylic for flooring adhesives and sealants. Good filler acceptance, water resistance and adhesion. APEO free and low VOCs</p>
<p>Pressure sensitive flooring adhesive binder with high solids, low viscosity, high adhesion and tack. Low formaldehyde, VOCs and ammonia free</p>
<p>Moisture permeable acrylic for use in air barriers with high elongation and adhesion</p>
<p>High performance acrylic for demanding adhesive applications. Provides heat resistance, high SAFT, high tack / peel, Moisture resistance. Adhesion to low energy substrates and exhibits Fast drying. APEO Free</p>
<p>High Solids acrylic used in flooring adhesives and sealants. High cohesive strength, good plasticizer resistance, and filler acceptance. Ammonia and APEO free.</p>
<p>Acrylic pressure sensitive adhesive binder for flooring adhesives with high solids, good water resistance, and high tack. APEO free</p>
<p>Self crosslinking acrylic resin for white roof coatings meeting ASTM D-6083, good dirt pick up resistance and polyurethane foam adhesion. Typically used in formulations containing zinc oxide. APEO free</p>
<p>High solids acrylic used in flooring adhesives and specialty sealants. High cohesive strength, good plasticizer resistance, and filler acceptance. Ammonia free</p>
<p>Acrylic copolymer dispersion for use in sealants. Provides excellent glass adhesion, flexibility and elasticity. APEO free and low VOCs</p>
<p>Acrylic for elastomeric wall coatings, EIFS and air barriers. High moisture vapor transmission yet low water absorption. Low surface tack, good dirt pick up resistance and low temperature flexibility. APEO and ammonia free.</p>
<p>Elastomeric, self crosslinking acrylic for use in zinc-free roof coatings meeting ASTM D-6083. Excellent dirt pick up resistance and polyurethane foam adhesion. Cement compatible. APEO and ammonia free</p>
<p>Elastomeric, self crosslinking acrylic for use in zinc-free roof coatings meeting ASTM D-6083. Excellent dirt pick up resistance and polyurethane foam adhesion. APEO and ammonia free</p>
<p>Ready-to-use acrylic for use in sound damping. APEO free</p>
<p>APEO free acrylic dispersion for use in vinyl flooring adhesives. Superior plasticizer resistance, good cohesive strength and filler acceptance. Strong pH self-thickening effect.</p>
<p>High performance acrylic for elastomeric roof and wall coatings. Superior tensile strength, elongation and weatherability. Excellent dirt pick up resistance. APEO free</p>
<p>Acrylic dispersion for use in flooring adhesives, superior plasticizer resistance, cohesive strength and heat resistance. Good filler compatibility, APEO and ammonia free, low VOCs</p>
<p>Acrylic dispersion for translucent sealants meeting ASTM C920 performance. Superior water resistance.</p>
<p>Self-crosslinking dispersion for use in cementitious waterproofing membranes and EIFS basecoats. Good low temperature crack-bridging and superior workability. APEO and ammonia free</p>
<p>For use in economical gap fillers and caulks. Self-thickening, high filler acceptance. APEO and ammonia free</p>
<p>Acrylic binder for ASTM C-920 Class-25 sealants. Superior water resistance, ultraviolet/color stability and adhesion. APEO free</p>
<p>All-purpose resin for flexible white roof coatings boasting high strength, elongation and good dirt pick-up resistance. APEO free</p>
<p>For use in cementitious waterproofing membranes, EIFS basecoats, flexible mortars and tile adhesives. Good strength and flexibility. APEO and Ammonia free</p>
<p>Acrylic binder for use in air barriers. Good compatibility with asphalt. Superior moisture vapor permeability with low water uptake. APEO free</p>
<p>All purpose styrene acrylic for use in cementitious waterproofing membranes and flexible mortars. High elongation and excellent water resistance</p>

Acrylic Dispersions

Typical properties

Product	Tg (°C)	Solids (%)	pH	Viscosity (cps)	Density (lb/gal)	Monomer Type
Acronal® NS 567	-6	50	8.5	5,000	8.7	Styrene Acrylic
Acronal® NX 3587	-5	55	7.1	250	8.6	Acrylic
Acronal® DS 3390 na	3	65	4.5	200	8.9	Acrylic
Acronal® 4569	4	50	7.5	600	8.7	Acrylic
Acronal® 5041	5	52	7.5	300	8.5	Styrene Acrylic
Acronal® 5411 X	10	62	7.0	400	8.7	Acrylic
Joncryl® 2980	10	45	9.0	< 300	8.7	Acrylic
Acronal® NX 4312	11	48	7.0	300	8.6	Styrene Acrylic
Acronal® 4600	12	47	9.0	300	8.5	Acrylic
Acronal® NX 4623	12	47	10.0	65	8.8	Acrylic
Acronal® 4624	12	47	10.0	200	8.8	Acrylic
Acronal® 4924	12	47	10.0	200	8.8	Acrylic
Acronal® NX 4627	12	48	7.0	300	8.6	Styrene Acrylic
Acronal® NX 4612 X	13	46.5	8.0	220	8.6	Acrylic
Acronal® 4230	15	60	8.5	400	8.9	Acrylic
Acronal® NX 2727	17	50	7.5	3,500	8.6	Styrene Acrylic
Acronal® S 702	19	50	7.8	1,500	8.6	Styrene Acrylic
Acronal® 4120	19	50	8.3	5,000	8.7	Acrylic
Acronal® DS 2159	20	50	8.5	1,200	8.7	Acrylic
Acronal® 4835 X	21	50	9.0	1,200	8.6	Styrene Acrylic
Acronal® 296 D na	22	50	8.0	7,000	8.7	Styrene Acrylic
Acronal® S 760 na	22	50	9.2	325	8.7	Styrene Acrylic
Acronal® NX 4787	23	50	8.0	700	8.7	Styrene Acrylic
Acronal® Xpress 4423	23	50	8.0	500	8.7	Styrene Acrylic
Acronal® 4074	37	45	7.5	350	8.6	Styrene Acrylic
Quick-Trigger™ 4333 X	-6	32	11.0	50	8.5	Quick-Trigger™

Features

All purpose resin for economical elastomeric white roof coatings. Provides high strength, elongation and good dirt pick-up resistance
Self crosslinking resin for asphalt-bleed resistant white roof coatings. Provides high strength, polyurethane foam adhesion and superior dirt pick up resistance. APEO and Ammonia free
Unique high solids acrylic having low viscosity for use in adhesives. Excellent cohesive strength; good adhesion to many substrates. Ammonia free
Acrylic binder with excellent plasticizer resistance and high film strength for use in construction adhesives. APEO free.
Broad application: mastic tile and ETICS adhesives, Primers and Mastic Waterproofing. Exhibits good water resistance, Outstanding Tensile & Elongation properties, Fast drying, Good adhesion, high pigment binding power, APEO free
For fast-drying, transparent sealants having superior water-whitening, dirt pick-up and weathering resistance. High solids. APEO free
One componente acrylic emulsion that provides a wet-look appearance for interior and exterior clear and pigmented coatings at 100 g/l VOC.
Styrene-acrylic dispersion for use in moisture vapor barriers over concrete. Is stable in mortars as well. APEO and ammonia free.
All acrylic resin for EIFS cementitious basecoats and topcoats. Excellent weatherability with good dirt pick-up resistance. APEO free
All acrylic resin for cementitious formulations providing superior workability, potlife, and compressive strength.
All-acrylic 'drop-in' resin for cementitious formulations providing superior workability, potlife, and good compressive strength. Five cycle Freeze-thaw stability
All-acrylic resin for cementitious formulations providing superior workability, potlife, and good compressive strength. Five cycle Freeze-thaw stability, APEO and ammonia free.
Styrene acrylic resin stable in both anionic and cationic asphalt emulsions used in trackless bond coats and fog seals. Cement stable. APEO and ammonia free.
Hydrophobic acrylic resin for use in waterproofing applications. High filler acceptance and excellent water resistance. APEO free
High solids acrylic resin designed for use in low VOC (50 g/L) flat and satin coatings. Provides excellent durability and scrub resistance. APEO free.
Styrene acrylic resin for use in primer applications (e.g., EIFS). Highly water resistant and imparts strong adhesion to construction substrates.
Moisture-alkali resistant, cement compatible, styrene acrylic resin used in mortar modification. Lowers water to cement ratio resulting in high mortar strength
All acrylic resin for use in EIFS topcoats. Superior exterior durability and water resistance
All acrylic resin for use in premium AFG-01 adhesives. Excellent moisture resistance, wet adhesion, durability and good filler acceptance
For use in ceramic tile adhesives. Provides highest balance of filler acceptance, ANSI 136.1 wet shear strength and open/adjustment times. APEO and ammonia free
All purpose styrene acrylic for adhesives, primers and coatings. Provides high strength, adhesion and alkali resistance. High filler acceptance
Styrene acrylic binder use in corrosion resistant primers and coatings. Provides excellent water and alkali resistance.
All purpose styrene acrylic used in adhesives, primers and coatings. Provides high strength, adhesion and water/alkali resistance. Low viscosity, APEO free
Follow-Up with Jeremy on Description
APEO free, fine particle size dispersion for the manufacture of construction grouts, adhesives and waterproofing membranes. High Tg with superior water resistance. APEO and ammonia free
Quick Trigger additive for exterior coatings and waterproofing applications. Accelerates set and promotes early rain and quicker foot traffic resistance

Acrylic Dispersions

Product Applications

Product	Flooring						Ceramic Tile Adhesive		Construction Adhesive		Sealant				Coatings	
	Carpet / Vinyl Feltback	Wood	Homogeneous Vinyl / Tile / Plank	Vinyl Composition Tile	ECO/Hydrophobic Backings	Cove base	CTA Mastic	CTA Thinset	Drywall / Panel / Duct	AFG-01 Subfloor-Lumber	Filled Caulk	RTU Grout	Transparent	Glass Adhesion	Elastomeric Wall	Flexible Roof
Acronal® 4311												■ ■				
Acronal® 4312																
Acronal® NX 4404										■ ■						
Acronal® 4420																
Acronal® 4511			■											■ ■		
Acronal® 4567 M															■ ■	
Acronal® 4569			■			■										
Acronal® 4600																
Acronal® NX 4612 X																
Acronal® NX 4623																
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Acronal® NX 4627																
Acronal® NX 4787							■									
Acronal® 4835 X							■ ■									
Acronal® 4848															■ ■	
Acronal® 4920 X										■						
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Acronal® 5036 X										■			■ ■			
Acronal® 5041							■									
Acronal® 5400																
Acronal® 5411 X												■ ■				
Acronal® 5442																
Acronal® Xpress® 4423																
Acronal® 4074																
Joncryl® 2980													■ ■			
Quick-Trigger™ 4333 X										■	■			■ ■	■ ■	

		Membranes (Waterproofing)					Cement / Gypsum				EIFS			Asphalt Modification			Other			
Deco/Other	Mastics	Primer / Sealer	Asphaltic	Air Barrier	Cementitious	Mortar/Repair, SLU's	Concrete Bridgedecking	Gypsum Modification	Efflorescence Control	Primer	Cementitious BaseCoat	TopCoat	Emulsions	Tack / Bond / Seal Coats	Hotmix	Latex Foam	Can Sealing	Phase Change Material	Sounddamping	
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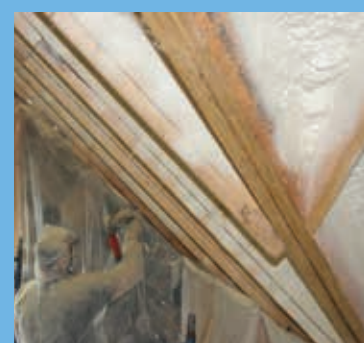
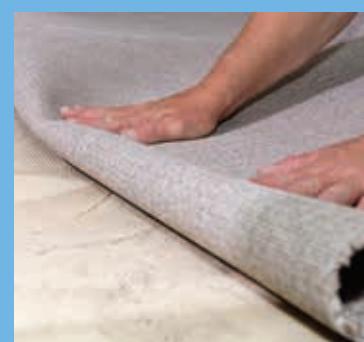
Non-Carboxylated Styrene Butadiene Dispersions

BASF's Butonal® and Butofan® styrene butadiene polymers have been helping consulting engineers and the public transportation community improve the performance of pavement surface treatments and asphalt mix maintenance overlays for more than 25 years. Liquid asphalt binder modification with Butonal® latex polymers enhances aggregate retention, prevents drain-down, improves binder performance at high and low temperature extremes, and retards asphalt pavement oxidation in non-structural maintenance applications.

BASF is a leading supplier to the carpet industry, providing latex for broadloom carpet and washable rugs, as well as automotive carpet. Our products meet the needs of carpet manufacturers by binding a range of fiber types with a variety of backing, providing the finished formulation with toughness and water resistance.

Products at a glance

- [Butonal® Polymers](#)
- [Butofan® Polymers](#)



Features
Extensible, high molecular weight, resin-oil compatible styrene butadiene dispersion used in flooring adhesives. Promotes webbing/legging. APEO and Ammonia free
High modulus and molecular weight, resin-oil compatible styrene butadiene dispersion for use latex foam and flooring adhesives. Promotes webbing/legging. APEO and Ammonia free
Highest modulus and molecular weight, resin-oil compatible styrene butadiene dispersion for use in latex foam and flooring adhesives. Promotes webbing/legging. APEO and Ammonia free
High molecular weight styrene butadiene dispersion designed for foam bedding and pillows. APEO and Ammonia free
High molecular weight, FDA CFR 175.300 compliant styrene butadiene. APEO and Ammonia free
Anionic, high molecular weight styrene butadiene dispersion designed for use in asphalt modification and waterproofing. APEO and Ammonia free
Anionic, crosslinking styrene butadiene dispersion which improves hot asphalt and asphalt emulsion binders to meet SHRP+ specifications. APEO and Ammonia free
Cationic, high molecular weight styrene butadiene dispersion designed for use in asphalt modification. Improves strength, ductility and flexibility. APEO and ammonia free
Cationic, crosslinking styrene butadiene dispersion used in premium chip seals and micro-surfacing emulsions. Promotes early strength build. APEO and Ammonia free
Extensible, high molecular weight dispersion for carpet and multipurpose adhesives requiring process oil compatibility. Provides highest concentration of legging. APEO and Ammonia free.
Rosin acid stabilized, anionic styrene butadiene for flooring adhesives and asphaltic waterproofing. Improves strength and water resistance. APEO and Ammonia free

		Membranes (Waterproofing)					Cement / Gypsum				EIFS			Asphalt Modification			Other			
Deco/Other	Mastics	Primer / Sealer	Asphaltic	Air Barrier	Cementitious	Mortar/Repair, SLU's	Concrete Bridge decking	Gypsum Modification	Efflorescence Control	Primer	Cementitious BaseCoat	TopCoat	Emulsions	Tack / Bond / Seal Coats	Hotmix	Latex Foam	Can Sealing	Phase Change Material	Sounddamping	
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■ = suitable
■ ■ = very suitable



Carboxylated Styrene Butadiene Dispersions

BASF Styrofan® and Butofan® products offer solutions which ensure the formulated mixtures maintain adhesion in all types of expansion and contraction situations. With an extensive portfolio of binders, dispersions, and additives for use in construction adhesives, our environmentally friendly materials help manufacturers go beyond superior physical performance to meet tough low odor and low VOC standards.

Products at a glance

- [Butofan® Dispersions](#)
- [Styrofan® Dispersions](#)



Carboxylated Styrene Butadiene Dispersions

Typical properties

Product	Tg (°C)	Solids (%)	pH	Viscosity (cps)	Density (lb/gal)	Surface Tension (mN/m)
Butofan® NS 222	-26	51	8.8	300	8.3	45
Butofan® NS 209	-26	51	8.6	300	8.4	48
Butofan 4000	-26	51	6.5	300	8.4	50
Styofan® NX 1492	-10	50	8.5	200	8.3	46
Styofan® 2487	4	51	9.1	600	8.4	46
Styofan® ND 593	5	51	8.8	250	8.4	50
Styofan 4925	5	50	8.5	400	8.5	48
Styofan® ND 614	6	48	10.0	40	8.5	41
Styofan® 1186	6	48	10.0	40	8.5	41
Styofan® 4104 X	10	47	7.5	50	8.4	44
Styofan® ND 623 na	14	51	9.0	70	8.5	38
Styronal® ND 811	63	50	7.5	125	8.4	47

Features

Styrene butadiene dispersion for use in flooring adhesives and waterproofing . Provides desirable balance of cohesion, tack and superior water resistance. APEO free

Styrene butadiene dispersion for use in flooring adhesives and waterproofing . Provides desirable balance of film strength and water resistance. APEO free

Styrene-butadiene dispersion with a good balance of tensile strength & elongation and excellent heat-age stability.

Styrene butadiene dispersion used in waterproofing mastics. Provides excellent water resistance, flexibility, and good filler compatibility. APEO free

FDA 175.300 compliant styrene butadiene. Good chemical and mechanical stability along with high film strength.

All purpose styrene butadiene used in adhesives. Provides good water resistance, filler acceptance and high film strength. APEO and ammonia free

Specialty styrene butadiene dispersion for use waterproofing, especially where crack-bridging is required. Excellent balance of tensile and elongation, fast drying with superior water resistance. APEO free

High performance styrene butadiene with excellent cement and mortar compatibility. Improves flexural and tensile bond strength along with adhesion

FHWA-RD-78-35 approved for use in concrete bridgedecking. Greatly improves flexural and tensile bond strength, adhesion, and chloride ion impermeability

Unique styrene butadiene used in waterproofing, mortar modification and as a moisture vapor emission barrier over 'green' concrete. Very low water uptake and vapor transmission. APEO and ammonia free

Low odor styrene butadiene dispersion used in high end cementitious applications. Provides high mortar strength, adhesion and alkali resistance. APEO and ammonia free

High Tg dispersion, non-film forming, stiffening modifier used in various construction adhesive applications.

		Membranes (Waterproofing)					Cement / Gypsum				EIFS			Asphalt Modification			Other			
Deco/Other	Mastics	Primer / Sealer	Asphaltic	Air Barrier	Cementitious	Mortar/Repair, SLU's	Concrete Bridgedecking	Gypsum Modification	Efflorescence Control	Primer	Cementitious BaseCoat	TopCoat	Emulsions	Tack / Bond / Seal Coats	Hotmix	Latex Foam	Can Sealing	Phase Change Material	Sounddamping	
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■ = suitable
■ ■ = very suitable



Mortar Additive Technologies

BASF mortar dispersions have been developed for cement applications that are environmentally friendly and meet a broad range of manufacturer and end-user requirements. Some of the features our additives boast include reduced stickiness of cement to tools, easy redispersability, and high performing superplasticizers that also help to reduce water.

Products at a glance

- [Acronal® Acrylic Polymers](#)
- [Melflux® Superplasticizers](#)
- [Calsan® Calcium Sterate](#)



Mortar Additive Technologies

Typical properties

Product	Tg (°C)	Solids (%)	pH (30% in water)	Form	Viscosity (cps)	Density
Acrylic Powders						
Acronal® P 5033	-15	> 98	ca. 7	Powder	-	31 (lb/ft ³)
Acronal® S 734 P	20	ca. 99	ca. 8	Powder	-	31 (lb/ft ³)
Acronal® S 735 P	20	ca. 99	ca. 8	Powder	-	31 (lb/ft ³)
Super Plasticizer						
Melflux® 2454 L/54% N.D.	-	54	6.5	Aqueous Solution	-	9.3 (lb/gal)
Melment® L 10/40%	-	40	10.2	Aqueous Solution	-	10.5 (lb/gal)
Calcium Stearate						
Calsan® 50	-	50	11.0	Aqueous Dispersion	250	8.4 (lb/gal)

Product Applications

Product	Flooring						Ceramic Tile Adhesive		Construction Adhesive		Sealant				Coatings	
	Carpet / Vinyl Feltback	Wood	Homogeneous Vinyl / Tile / Plank	Vinyl Composition Tile	ECO/Hydrophobic Backings	Cove base	CTA Mastic	CTA Thinset	Drywall / Panel / Duct	AFG-01 Subfloor-Lumber	Filled Caulk	RTU Grout	Transparent	Glass Adhesion	Elastomeric Wall	Flexible Roof
Acrylic Powders																
Acronal® P 5033								■								
Acronal® S 734 P								■ ■								
Acronal® S 735 P								■ ■								
Super Plasticizers																
Melment® L 10/40%								■								
Melflux® 2454 L/54% N.D.								■								
Calcium Stearate																
Calsan® 50																

Features

Low Tg self-crosslinking styrene acrylic powder. Promotes superior flexibility and adhesion in 1K waterproofing slurries. APEO and Ammonia free

Defoamed, APEO free styrene acrylic powder polymer. Yields low water to cement ratio and reduced sticking to tools.

APEO free, styrene acrylic polymer powder. Promotes less sticking to tools and very low water to cement ratio.

High performance modified polycarboxylic ether based superplasticizer for concrete. Optimized for plasticization and water reduction of cement based materials. APEO and ammonia free.

Sulphonated melamine based polycondensation product for concrete. Optimized for plasticization and water reduction of cement based materials. APEO and ammonia free.

Calcium stearate dispersion for use in mortar/concrete masonry units. Low free calcium, < 0.1 % free alkali. Provides efflorescence control. APEO and ammonia free

		Membranes (Waterproofing)					Cement / Gypsum				EIFS			Asphalt Modification			Other			
Deco/Other	Mastics	Primer / Sealer	Asphaltic	Air Barrier	Cementitious	Mortar/Repair, SLU's	Concrete Bridgedecking	Gypsum Modification	Efflorescence Control	Primer	Cementitious BaseCoat	TopCoat	Emulsions	Tack / Bond / Seal Coats	Hotmix	Latex Foam	Can Sealing	Phase Change Material	Sounddamping	
					■ ■	■ ■					■									
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									■ ■											

■ = suitable
■ ■ = very suitable

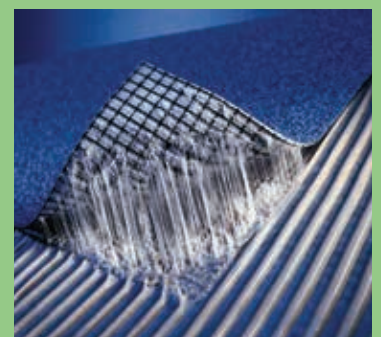


Selected Formulation Additives

BASF formulation additives have been ...

Products at a glance

- Rheovis®
- Attagel®
- Dispex®
- Foamaster®
- Hydropalat®
- Loxanol®



Selected Formulation Additives

Typical properties

Product	Solids (%)	pH	Viscosity (cps)	Density	VOC Content (%)	Form
Rheology Modifiers						
Rheovis® AS 1125	25	2.8	17	1.05 g/cc	< 0.1	liquid
Rheovis® AS 1920	> 98	-	-	0.65 g/cm ³	< 1	powder
Rheovis® HS 1152	40	3	5	1.05 g/cc	< 1	liquid
Rheovis® PU 1251	30	-	3000	1.0 g/cc	< 1	liquid
Attigel® 50	~ 100	9.8 (DI water)	-	0.40 g/cm ³ (bulk)	-	powder
Dispersing Agents						
Dispex® AA 4144	35	-	-	-	< 0.3	liquid
Dispex® AA 4030	30	-	-	-	< 0.1	liquid
Dispex® CX 4320	25	-	-	-	< 0.1	liquid
Defoamers						
Foamaster® MO NXZ	> 88	-	400	0.88 g/cc	~ 12	liquid
Foamaster® MO 2133	98	-	1,000 mPas	0.85 g/cm ³		liquid
Foamaster® MO 2185	94	-	400 mPas	0.91 g/cm ³		liquid
Foamstar® SI 2210	> 99	-	75	0.95 g/cc	~ 1	liquid
Foamstar® PB 2922	100			0.43 g/cm ³ (bulk)	< 0.1	powder
Foamstar® ST 2422	> 99	-	-	-	< 0.5	liquid
Wetting Agents						
Hydropalat® WE 3370	60	-	-	-	< 10	liquid
Hydropalat® WE 3475	75	-	-	-	~ 6	liquid
Film Forming Agent						
Loxanol® CA 5310	> 97	-	80	-	< 3	liquid

Features

Anionic polyacrylate copolymer, alkali swellable emulsion (ASE). Non-associative low-shear thickener. Highly shear thinning, improves anti-settling and sag resistance.

Anionic polyacrylate copolymer, alkali swellable powder (ASE). High efficiency, non-associative thickener for use in gypsum plasters and cements. < 100 micron particle size, Low VOC.

Hydrophobically modified alkali swellable emulsion (HASE). High efficiency, low shear associative thickener. Improves anti-settling and sag resistance. Non-APEO, low VOC.

Hydrophobically modified, ethoxylated urethane (HEUR). Mid-shear, slightly pseudoplastic, easy to incorporate associative with built in foam suppression and wetting properties. Non-APEO, low VOC, tin-free. 20% active content.

Highly thixotropic attapulgite powder thickener. Easy to disperse. Assists in syneresis control, sag resistance and anti-settling. High efficiency. Non-APEO, low VOC.

Polymeric dispersing agent based on acrylic acid, sodium hydroxide neutralized. Low polydispersity leading to most efficient dispersing properties. Non-APEO, low VOC.

General purpose polymeric dispersing agent based on acrylic acid, ammonia neutralized for improved water resistance. Non-APEO, low VOC.

Polymeric dispersing agent based on the sodium salt of a modified polycarboxylate. Excellent dispersing efficiency, high water resistance. Non-APEO, low VOC.

General purpose, broad spectrum mineral oil defoamer for water-based formulations.

Economical universal defoamer effective in high shear environments and in low VOC systems.

An easy to incorporate, highly effective defoamer.

Universal modified polydimethylsiloxane (PDMS) defoamer. Strong spontaneous defoaming effect with good long-term efficiency. Non-APEO, low VOC

Silicone-free, powder defoamer composed of a blend of surface-active and mineral substances. High efficiency, good compatibility, non-APEO.

Hyper-branched star polymer based defoamer. Low use level, excellent persistence, good choice for acylics.

Water-based, fluorocarbon-modified polyacrylate wetting agent. Non-foaming, excellent substrate wetting, leveling and anti-cratering. Non-APEO

Highly efficient sulfosuccinate wetting agent; strong reduction of dynamic surface tension. Non-APEO.

Propylene glycol monoester of predominately C-19 fatty acid. Low VOC, non-APEO, excellent balance of coalescent properties

Selected Formulation Additives

Product Applications

Product	Adhesives	Sealants	Flexible Roof Coatings	Asphalt Modification	Cementitious	EIFS	Ceramic Tile Adhesives	Air Weather Barriers	Fiberbonding	Carpet
Rheology Modifiers										
Rheovis® AS 1125	■ ■	■ ■	■		■	■ ■	■	■	■ ■	
Rheovis® AS 1920	■				■	■	■			
Rheovis® HS 1152	■	■					■ ■		■ ■	
Rheovis® PU 1251	■		■ ■		■		■	■ ■	■	
Attagel® 50	■	■				■	■			
Dispersing Agents										
Dispex® AA 4144	■		■ ■				■	■ ■	■	
Dispex® AA 4030	■	■ ■					■		■	
Dispex® CX 4320	■	■ ■			■ ■	■ ■	■ ■	■ ■		
Dispex® AA 4135	■ ■	■ ■	■		■ ■	■ ■	■ ■	■ ■	■	
Dispex® CX 4340	■ ■	■ ■			■ ■			■ ■		
Defoamers										
Foamaster® MO NXZ	■ ■	■ ■	■ ■	■		■ ■		■ ■	■	
Foamaster® MO 2133	■ ■		■ ■	■	■	■ ■		■ ■		
Foamaster® MO 2185	■ ■	■ ■		■					■ ■	■ ■
Foamstar® SI 2210	■ ■	■	■	■	■	■ ■			■	■ ■
Foamstar® PB 2922					■					
Wetting Agents										
Hydropalat® WE 3370	■ ■	■ ■	■			■	■ ■	■		
Hydropalat® WE 3475	■						■		■	■
Film Forming Agent										
Loxanol® CA 5310	■	■	■				■	■		

About the Dispersions & Resins Division

The Dispersions & Resins Division in North America offers a comprehensive portfolio of resins, binders, latex, colorants, and systems to meet specific application needs for the coatings, construction, printing and packaging and plastics markets. Our innovative products also help manufacturers in the adhesives, nonwovens and fiber bonding industries meet functional and performance demands. Our formulation additives, rheology modifiers, light stabilizers, photoinitiators, and antioxidants significantly enhances the existing BASF product portfolio for these markets. For more information about BASF's Dispersions & Resins Division, visit www.basf.us/dpsolutions.

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United States and Canada

BASF Corporation
11501 Steele Creek Road
Charlotte, NC 28273
Phone: 800-251-0612
Fax: 800-971-1123
email: dpsolutions@basf.com

Mexico

BASF Mexicana, S.A. de C.V.
Av. Insurgentes Sur 975
Col. Ciudad de los Deportes
03710 Mexico, D.F.
Phone: 52-55-5325-2600
Fax: 52-55-5723-3011
e-mail: contactoed@basf.com
Web: www.basf.com.mx