



□ - BASF
We create chemistry

The Smartest Roofs Under the Sun

BRILLIANCE®

Acrylics and Additives for
Reflective Roof Coatings



An aerial photograph of a cityscape under a clear blue sky. In the foreground, a large, modern building with a bright white, reflective roof is prominent. The roof is equipped with several HVAC units and other mechanical systems. The building's facade is a dark, neutral color. Beyond the white-roofed building, the city unfolds with various other buildings, green spaces with trees, and parking areas. In the background, a range of brown, rocky mountains stretches across the horizon. The overall scene is bright and clear, emphasizing the 'brilliance' of the reflective roof.

The brighter way to better roofs.

Introducing a new level of BRILLIANCE: Reflective roofs provide a superior way for builders to reduce the amount of heat that is typically absorbed by traditional asphalt roofs. The result is brighter, smarter roofs that benefit both the environment and the building.

BRILLIANCE



With BRILLIANCE by BASF, we've developed a collection of innovative acrylics and additives specifically designed to help our customers be more successful in the roof coating industry. Formulated to comply with rigorous performance and regulatory standards, these dispersions and additives can help decrease labor time, simplify installation and broaden the application window.

The Benefits of BRILLIANCE

- Sustainable water-based, low-VOC chemistry and zinc-oxide free coatings.
- UV resistance reduces building temperatures for increased energy efficiency and lower carbon footprint.
- High-performance chemistry allows BRILLIANCE products to adhere to a wide variety of substrates.
- Easy to install with a wide tolerance to varying weather conditions.
- Meets challenging formulation demands for an array of substrates.
- Season extension and fast cure times to help increase profitability and lower labor costs.

Product Offerings

BASF offers a wide variety of dispersions with self-crosslinking chemistry and formulation additives designed to surpass roofing performance standards and exceed guidelines for ASTM D6083 (Type I & Type II), Title 24, and Dade County.

- **Acronal® 4400** is designed for code compliant coating applications offering excellent benefits such as enhanced mechanical strength, asphalt bleed resistance, superior adhesion, and dirt pick-up resistance.
- **Acronal 4550 X** is used in Instant Set coatings which offer immediate rain resistance, allows for high film build in a single pass and reduces labor costs. It is ideal for applications in high humidity and wet weather regions.
- **Acronal 4250** premium elastomeric is recommended for use in zinc-oxide free formulations, has excellent adhesion to various substrates and is code compliant.
- **Acronal NX 3250M** is recommended for use in code compliant zinc-oxide containing elastomeric roof coating formulations.
- **Acronal 3587** provides excellent asphalt bleed resistance with outstanding adhesion to diverse substrates and performs extremely well as a base coat or primer.
- **Acronal 4848** has high performance mechanical properties for hail resistance and excellent weatherability.
- **Acronal S 400** offers excellent crack bridging performance for flexible cementitious roof coatings.
- **Acronal 2727** for primers with tremendous adhesion to various roofing substrates.
- **Acronal 4567** for flexible white roof coatings boasting high tensile strength and elongation as well as dirt pick-up resistance. Can be designed to be formulated as a low-cost coating.
- **Acronal 567** for economical elastomeric white roof coatings. Provides high strength, elongation and good dirt pick-up resistance.
- **Acronal 760** for use in corrosion resistant primers and coatings. Provides excellent water and alkali resistance.
- **Quick-Trigger® 4333** can be used to achieve early rain resistance when combined with BASF's Acronal resins in roof coating formulations.

Acrylics

Product	Physical Properties			Applications/Features							Adhesion			
	Tg	Wt. % Solids	Viscosity (cps)	General Purpose	Elastomeric	Asphalt Bleed Resistance	Early Rain Resistance	Dirt Pick-up Resistance	Cementitious	Primer	TPO & EPDM*	Polyurethane Foam	Concrete	Metal
Acronal NX 3250M	-33	55	200	●	●		**	●			●	●	●	●
Acronal 4250	-28	55	200	●	●		**	●			●	●	●	●
Acronal 4848	-24	55	200	●	●		**	●			●	●	●*	●
Acronal 4400 (new)	<-6	55	200	●	●	●	**	●			●	●	●	●
Acronal S 400	-6	57	500	●					●				●	●
Acronal 4567	-5	55	2000	●			**	●	●	●	●		●*	●
Acronal NS 567	-5	50	5000	●			**	●		●	●		●*	
Acronal 4550 X	-	55	300	●	●	●	***	●			●	●	●	●
Acronal NX 3587	-5	55	200	●		●	**	●	●	●	●	●	●*	●
Acronal 4624	12	47	60	●				●	●	●			●	
Acronal NX 2727	17	50	3500						●	●			●	●
Acronal S 760	22	50	325							●			●	●

* When applied over a primer

** Achieved in combination with Quick-Trigger® 4333 additive

*** When used in conjunction with Instant Set coating system

Additives

Product	Wt. % Solids	Viscosity (cps)	Density (g/cm ³)	Performance Highlights
Dispersing Agent				
Dispex® AA 4135	35	200	1.22	Standard dispersing agent for inorganic fillers and pigments- recommended for low-voc systems.
Defoamers				
FoamStar® ST 2412	100	-	0.84	New defoamer technology lowering total cost in use by lowering addition to the coating, very efficient in use in deaerating coatings.
Foamaster® MO NXZ	88	400	0.88	General purpose mineral oil defoamer with easy incorporation.
Rheology Modifiers				
Rheovis® AS 1125	25	17	1.05	Alkali swellable emulsion (ASE) and, upon neutralization with a base, it imparts strong viscosity increase and shear thinning characteristics.
Attagel® 15	-	-	-	Economical, coarse particle-size Attapulgit product that has high gel strength and a smooth texture with good spreading characteristics.
Film Forming and Wetting Agents				
Quick-Trigger® 4333	32	40	1.02	Liquid dispersion additive for achieving early rain resistance when used in conjunction with any BASF polymers for roof coatings.
Loxanol® CA 5086	97	60	0.90	Low VOC coalescent that increases flexibility and elongation and minimizes water sensitivity.
Product	GE (%)	pH (20% solids)	Particle size (µm)	Performance Highlights
Kaolin				
ASP® 172	90	7	0.4	Hydrous aluminum silicate that provides high brightness and whiteness while reducing TiO ₂ levels by up to 20%.

About the Dispersions & Resins Business

The Dispersions & Resins business of BASF develops, produces, and markets a range of high-quality resins, additives, colorants, and polymer dispersions worldwide. These raw materials are used in formulations for coatings and paints, printing and packaging products, construction coatings, adhesives, cellulose and composites, and paper manufacturing. With a comprehensive product portfolio and extensive knowledge of the industries we serve, our customers benefit from innovative and sustainable solutions to help them advance their formulations through chemistry. For further information about the Dispersions & Resins business in North America, please visit <http://www.basf.us/dpsolutions>.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The more than 115,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of more than €60 billion in 2017. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at www.basf.com.

United States and Canada

BASF Corporation
11501 Steele Creek Road, Charlotte, NC 28273
Phone: 800-251-0612
Fax: 704-587-8224
Email: dpsolutions@basf.com
Web: www.basf.us/ConstructionSolutions

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
Email: contactoed@basf.com
Web: www.basf.com.mx

THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH, AND ARE BASED ON BASF'S CURRENT KNOWLEDGE AND EXPERIENCE. THEY ARE PROVIDED FOR GUIDANCE ONLY, AND DO NOT CONSTITUTE THE AGREED CONTRACTUAL QUALITY OF THE PRODUCT OR A PART OF BASF'S TERMS AND CONDITIONS OF SALE. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE OF THE PRODUCT, BASF RECOMMENDS THAT THE READER CARRY OUT ITS OWN INVESTIGATIONS AND TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR ITS PARTICULAR PURPOSE PRIOR TO USE. IT IS THE RESPONSIBILITY OF THE RECIPIENT OF PRODUCT TO ENSURE THAT ANY PROPRIETARY RIGHTS AND EXISTING LAWS AND LEGISLATION ARE OBSERVED. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH HEREIN, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS.** ANY DESCRIPTIONS, DESIGNS, DATA AND INFORMATION GIVEN IN THIS PUBLICATION MAY CHANGE WITHOUT PRIOR INFORMATION. THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTIONS, DESIGNS, DATA OR INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT THE READER'S RISK.

© BASF Corporation, 2019. All rights reserved. 01/19

Acronal, ASP, Attagel, Dispex, Foamaster, FoamStar, Hydrolapat, Loxanol, Rheovis and Quick-Trigger are registered trademarks of BASF SE



We create chemistry