

Binders for architectural coatings

DOW



Pushing paint boundaries

Dow Coating Materials is a world-leading source of cutting-edge innovations for architectural paints and coatings. From RHOPLEX™ VSR-50 Binder for exterior walls, EVOQUE™ 3150 Pre-Composite Polymer for exceptional hiding and TiO₂ efficiency, RHOPLEX™ 101 for interior and exterior walls, and RHOPLEX™ 2510 for 1K garage floor coatings, our binder chemistries set industry standards for paint performance and formulation flexibility providing solutions for every need. We invite you to explore our complete line of binder solutions for architectural paints and coatings.

Dow binder applications

Exterior wall

Exterior durability is a hallmark of Dow 100% acrylic binders. Our product portfolio is a leader in the industry in breadth and depth, with low-VOC options offering broad formulation flexibility as well as an excellent balance of gloss and tint retention, adhesion to a variety of substrates, and resistance to cracking, blistering and flaking. Try our RHOPLEX™ VSR-50 for a superior balance of exterior durability and water resistance performance and RHOPLEX™ 101 for great grain crack resistance as well as a great balance of interior performance.

Interior wall

Dow 100% acrylic and vinyl acrylic binders for interior walls help formulators differentiate their product lines while delivering solutions for consumer and contractor demands. Try EVOQUE™ 3150 Binder for superior interior performance with exceptional hiding and improved TiO₂ efficiency. RHOPLEX™ 101 will deliver a balance of early block resistance, scrub and stain resistance for high quality interior and exterior paints. RHOPLEX™ 2601 provides a balance of performance and economics for contractor formulations. Check out our newest low odor and low VOC interior/exterior binder, RHOPLEX™ VSR-5102 delivering low emissions profile and providing capability to pass stringent certifications

Primer

For primer coatings, Dow binders narrow the gap between water-borne and solvent-borne performance while offering lower VOC, easy application and faster clean-up. RHOPLEX™ MV-23LO and RHOPLEX™ PR-33 Binders have remained industry standards and provide workhorse options for interior and exterior primers. RHOPLEX™ 52 Binder facilitates quality stain-blocking primers to block stains without zinc oxide. RHOPLEX™ PR-409AF is an excellent APEO-free solution for a premium performance, universal, multi-substrate primer.

Paint-and-primer

EVOQUE™ 3150 and RHOPLEX™ VSR-1065 Binders offer an optimal balance of primer and topcoat properties for interior and exterior paint-and-primer products, including excellent hiding, stain resistance and scrub resistance. RHOPLEX™ VSR-50 delivers superior paint and primer performance for exterior applications.

High gloss

From the first waterborne binder for high-gloss enamels to the first one-pack offering with ambient crosslinking across the world, Dow binders for high gloss paints offer exceptional performance properties, including outstanding exterior durability, excellent adhesion and film hardness, and low-VOC capability. Try our RHOPLEX™ 800h Binder, which offers exceptional hardness development in deep bases at near-zero VOC.

Deck, siding, and restoration

AVANSE™ ST-410 Binder is 100% acrylic and the category leader for waterborne semi-transparent deck stains, offering advanced UV durability and early water resistance with minimal flaking failures. For deck and concrete restoration, our RHOPLEX™ DCR Binders offer thick-film performance that includes excellent adhesion to weathered substrates.

Indoor air quality

As buildings become more energy efficient and well insulated, the risk of exposure to indoor air pollutants increases. Volatile Organic Compounds, often referred to as VOCs are chemicals that are released into the air and can be inhaled by occupants. Formaldehyde is one of the most dangerous VOCs as it is a known carcinogen. FORMASHIELD™ 12 Acrylic Binder was developed to offer irreversible formaldehyde removal from ambient air in homes and commercial buildings.

Elastomeric and semi-flexible

Dow 100% acrylic binders for elastomeric wall coatings combine flexibility, durability, and added dirt pick-up resistance for long-lasting appearance without compromising elastomeric performance. RHOPLEX™ EC-3814 Binder offers notable cost savings through enhanced low-temperature elongation and mechanical properties at higher PVC as well as superior alkali resistance. Try our RHOPLEX™ 78 binder for superior dirt pick up resistance and a balance of elongation and tensile strength. RHOPLEX™ 585 Binder is an additional alternative offering great performance in semi-flexible applications.

1K garage floor coatings

RHOPLEX™ 2510 Binder is a newer, 100% acrylic solution for pigmented garage floor coatings, offering excellent adhesion to various concrete profiles, hot tire pickup resistance, and chemical resistance.

History of innovation

With a legacy of innovative breakthroughs over the last six decades, Dow demonstrates how our teams can help meet and exceed customer expectations today and in the future – from technology that holds up under harsher conditions to products that help them meet more significant demands from consumers, contractors and regulators without compromising performance.

Paint your future

Through purposeful collaboration and cutting-edge science and technology, our experts are solving the critical challenges of the coatings industry. Our commercial teams and our research organization have been industry leaders for decades.

Masonry

Masonry differs from other building materials in certain key respects – it is highly alkaline, generally porous, and prone to efflorescence. Dow 100% acrylic resins address these challenges with established offerings like RHOPLEX™ VSR-50, as well as variety of elastomeric and concrete sealer options.

Sports surfaces

Asphaltic and cementitious sports surfaces require coatings with great adhesion and outstanding durability under severe stresses such as running and jumping. RHOPLEX™ SS#4 Acrylic Resin was developed to address these needs in a water- based binder, offering capability for high-build, highly filled coatings for tracks, tennis courts and similar sports surfaces.

Clear sealers

Dow binders for clear sealers address the need to beautify and protect masonry with an established line-up of products such as RHOPLEX™ CS-4000 and RHOPLEX™ HG-98B Binders. Real world exposures and lab testing over cementitious and masonry substrates prove these binders offer excellent resistance to water blushing, as well as superior resistance to household stains. Newly developed RHOPLEX™ 2510 is an excellent solution for wet look and natural look sealers providing superior adhesion performance while maintaining excellent water resistance performance, stain and chemical resistance. RHOPLEX™ 2510 also offers excellent performance in 1K pigmented garage floor coatings, including adhesion to various concrete profiles, hot tire pickup resistance, and chemical resistance.



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Wall binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Interior	Exterior	Paint and primer capable	Semigloss	Satin	Flat	Description
EVOQUE™ 3150	Acrylic	49.0	8	Y	✓	✓	✓	••	••	••	Pre-composite binder technology that offers improved formulation flexibility. Offers greater TiO ₂ compatibility, excellent hiding and household stain removal.
AVANSE™ 66	Acrylic	50.5	5	Y	✓		✓	•	••	•	Pre-composite binder technology with ambient crosslinking polymer to deliver exceptional TiO ₂ efficiency and outstanding scrub/stain resistance for interior paint.
RHOPLEX™ 585	Acrylic	58.5	6	Y		✓		•	••	••	High-solids versatile binder designed for premium performance across wide range of exterior applications. Excellent exterior durability including DPUR, crack resistance and tint and gloss retention.
RHOPLEX™ 800h	Acrylic	45.0	< 5	Y	✓			••	•		Offers early hardness development in low-VOC, high-gloss, deep-tone paints. Excellent feel, hardness, low tack, and block resistance.
RHOPLEX™ AC-264	Acrylic	60.5	10	N		✓			•	•	High-solids binder designed for exterior flat to satin latex paints offering excellent adhesion to chalky substrates.
RHOPLEX™ AC-464	Acrylic	60.5	3	Y		✓			•	•	Low-VOC, APEO free version of RHOPLEX™ AC-264 for exterior flat to satin paints; offers excellent adhesion to chalky substrates.
RHOPLEX™ AC-261LF	Acrylic	50.0	16	Y	✓	✓		•	•		Binder suitable for higher sheen quality house paints as well as latex floor paints.
RHOPLEX™ AC-347	Acrylic	50.0	15	Y	✓	✓		•	•		Binder for use in interior and exterior semi-gloss house paints. Excellent adhesion and very good scrub resistance.
RHOPLEX™ AC-2508	Acrylic	46.5	13	N		✓		•	•	•	Binder designed for use with traditional cellulosic thickeners for exterior semi-gloss applications. Good adhesion, gloss retention, and dirt pick-up resistance.
RHOPLEX™ HG-95P	Acrylic	46.5	26	N	✓	✓	✓	•			Ambient-cure crosslinking technology for outstanding resistance properties and enamel-like feel. Outstanding exterior durability allows interior-exterior capability. Designed for high gloss; semi-gloss capable.
RHOPLEX™ HG-98B	Acrylic	45.0	24	Y	✓	✓	✓	•			Ambient-cure crosslinking technology designed for interior and exterior high gloss applications featuring outstanding exterior durability, excellent gloss development and gloss retention, early block resistance and stain resistance.
RHOPLEX™ HG-706	Acrylic	45.0	< 5	Y	✓	✓	✓	•			Ambient-cure crosslinking technology; offers superior stain and oil-softening resistance with enamel-like hardness. Outstanding exterior durability allows interior-exterior capability. Designed for high gloss; semi-gloss capable.
RHOPLEX™ ML-200	Acrylic	53.5	10	N		✓			•	•	Binder with optimized level of both spherical and lobed particles which enhance brush drag. Excellent exterior durability, film build, and chalk adhesion.
RHOPLEX™ ML-400	Acrylic	53.5	3	Y		✓			•	•	Low-VOC, APEO free version of RHOPLEX™ ML-200. Excellent exterior durability, film build, and chalk adhesion.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

Wall binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Interior	Exterior	Paint and primer capable	Semigloss	Satin	Flat	Description
RHOPLEX™ SG-10AF	Acrylic	50.0	16	Y	✓	✓	✓	•	•		Workhorse binder with excellent early block resistance and very good scrub resistance; offers good exterior durability.
RHOPLEX™ SG-20	Acrylic	45.5	15	Y	✓	✓	✓	•	•		Binder with early block resistance, excellent household stain resistance and removal, and excellent exterior durability.
RHOPLEX™ SG-30	Acrylic	50.0	17	Y	✓		✓	•	•	•	Binder designed for interior house paints with excellent scrub, block resistance and adhesion.
RHOPLEX™ VSR-50	Acrylic	45.5	8	Y	✓	✓	✓	••	••	••	Premium binder with excellent surfactant leaching, water resistance, alkali and efflorescence resistance, DPU, crack resistance and tint and gloss retention.
RHOPLEX™ 101	Acrylic	50.0	6	Y	✓	✓	✓	••	••	••	High quality binder for interior and exterior paint for both homeowner and professional application. It employs a great balance of interior and exterior performance, excellent early hot block and could be used as blending binder with PVA to improve performance.
RHOPLEX™ VSR-1049LOE	Acrylic	50.0	2	Y	✓		✓	••	••	••	Offers low coalescent demand to meet strict VOC regulations while facilitating exceptional block resistance, stain removal, adhesion and scrub resistance.
RHOPLEX™ VSR-1065	Acrylic	50.0	2	Y	✓	✓	✓	••	••	••	Versatile sheen resin with ambient crosslinking; offers exceptional scrub resistance, household stain and block resistance and excellent exterior durability.
RHOPLEX™ VSR-5102	Acrylic	50.0	0	Y	✓	✓	✓	••	••	••	Low-odor ultra low VOC capable binder that is solvent-free capable with no coalescing agent required. It's low emissions capability enables manufacturers to pass stringent certifications, including CHPS 01350. Very good balance of interior and exterior performance with superior grain-crack resistance.
RHOPLEX™ 2601	Acrylic	50.0	16	Y	✓	✓		•	•	•	Versatile 100% acrylic binder designed for mid-quality to economy interior and exterior coatings providing advantages over vinyl acrylic technologies and blends.
RHOPLEX™ MV-23LO	Acrylic	43.0	8	N		✓	✓	•	•	•	Binder with excellent exterior durability and good stain blocking for exterior paint-and-primer.
RHOPLEX™ PR-33	Acrylic	43.0	8	N		✓	✓	•	•	•	Ambient-cure crosslinking binder technology for excellent stain-blocking, adhesion and durability in exterior paint-and-primer.
RHOPLEX™ PR-409AF	Acrylic	45.0	4	Y		✓	✓	•	•	•	Excellent paint-and-primer performance similar to RHOPLEX™ PR-33 with enhanced dirt pick-up resistance.
RHOPLEX™ 732	Acrylic	45.0	8	Y		✓	✓	•	•	•	Premium acrylic latex for excellent water resistance capability description continued: It offers superior surfactant leaching resistance and efflorescence and also has utility in basement waterproofing coatings and primers.
ROVACE™ 9100AF	Vinyl Acrylic	55.0	10	Y	✓			•	•	•	Vinyl acrylic binder with excellent scrub and stain removal capabilities.
ROVACE™ 9900	Vinyl Acrylic	55.0	0	Y	✓			•	•	•	Premium vinyl acrylic binder for low-VOC formulations with exceptional scrub resistance and low odor. Can be blended with acrylics to improve performance.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

High gloss binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Interior	Exterior	Ranking	Description
RHOPLEX™ 800h	Acrylic	45.0	< 5	Y	✓		• •	Offers early hardness development in low-VOC, high-gloss, deeply toned paints. Excellent feel, hardness, low tack, and block resistance.
RHOPLEX™ HG-95P	Acrylic	46.5	26	N	✓	✓	•	Ambient-cure crosslinking technology for outstanding resistance properties and enamel-like feel. Outstanding exterior durability allows interior-exterior capability.
RHOPLEX™ HG-98B	Acrylic	45.0	24	Y	✓	✓	•	Ambient-cure crosslinking technology designed for interior and exterior high gloss applications featuring outstanding exterior durability, excellent gloss development and gloss retention, early block resistance and stain resistance.
RHOPLEX™ HG-706	Acrylic	45.0	< 5	Y	✓	✓	• •	Ambient-cure crosslinking binder technology offers exceptional stain and oil-softening resistance with enamel-like hardness in very low VOC high-gloss coatings. Outstanding exterior durability allows interior-exterior capability.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

Primer binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Interior	Exterior	Ranking	Description
RHOPLEX™ 52	Styrene-Acrylic	45.0	6	Y	✓	✓	• •	Stain blocking primer for zinc-oxide free formulations. Provides exceptional tannin and marker stain blocking, with excellent sandability, corrosion resistance, water resistance, and alkali resistance.
RHOPLEX™ MV-23LO	Acrylic	43.0	8	N	✓	✓	•	Excellent exterior durability and good stain blocking for interior/exterior primer applications.
RHOPLEX™ PR-33	Acrylic	43.0	8	N	✓	✓	•	Ambient-cure crosslinking technology for excellent stain-blocking and adhesion in interior-exterior primers.
RHOPLEX™ PR-409AF	Acrylic	45.0	4	Y	✓	✓	• •	100% Acrylic binder designed for premium performance in universal multi-substrate primer. Offers excellent adhesion to various new and repaint surfaces, superior adhesion to chalky latex, stain blocking (household and tannin), exterior crack resistance, efflorescence resistance, tint retention, and sandability.
RHOPLEX™ 732	Acrylic	45.0	8	Y	✓	✓	• •	Acrylic binder designed for premium performance with excellent metal and other substrate adhesion and top coat properties. Good stain blocking and sandability for use as a universal primer. Versatile use in exterior broad wall and basement waterproofing paint.

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Functional binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Interior	Exterior	Ranking	Description
FORMASHIELD™ 12	Acrylic	48.5	0	Y	✓		•	Capable of formaldehyde abatement from ambient air, helping to improve the indoor air quality of residential or commercial interior spaces.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

Wood stains

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Semi-transparent stains	Opaque stains	Description
AVANSE™ ST-410	Acrylic	37.0	< 3	Y	•		Outstanding exterior durability in semi-transparent deck and siding stains. Fast drying with excellent lapping resistance and erosion wear mechanism.
RHOPLEX™ AC-337N	Acrylic	45.5	12-16	Y	•		Exterior durability in semi-transparent deck and siding stains. Excellent water resistance in clear formulations with erosion wear mechanism in wood coatings.
RHOPLEX™ AC-464	Acrylic	60.5	3	Y		•	Offers premium performance in exterior opaque stains offering excellent adhesion to a variety of substrates and improved color and gloss retention. Offered at high solids for formulation flexibility.
RHOPLEX™ 585	Acrylic	58.5	6	Y		•	Offers exceptional exterior durability for premium opaque wood stains with excellent color and gloss retention. Finds utility in a variety of applications including deck restoration coatings. Offered at high solids for formulation flexibility.
RHOPLEX™ PR-409AF	Acrylic	45.0	4	Y		•	APEO-free offering with similar performance to RHOPLEX™ PR-33. Offers adhesion to multiple substrates and versatile use in primers and primerless paint.
RHOPLEX™ PR-33	Acrylic	43.0	8	N		•	Traditional offering with exterior durability and great adhesion. Offers versatile use in broad wall primers.
RHOPLEX™ MV-23LO	Acrylic	43.0	8	N		•	Traditional offering with exterior durability and great adhesion. Offers versatile use in broad wall primers.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

Deck and concrete restoration binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Description
RHOPLEX™ DCR-113	Acrylic	53.5	3	Y	Binder designed for high solids deck and concrete restoration coatings, with excellent abrasion resistance and flexibility in addition to adhesion to concrete and well-weathered wood.
RHOPLEX™ DCR-317	Acrylic	60.5	3	Y	Binder designed for high solids deck and concrete restoration coatings, with excellent dirt and stain resistance in addition to adhesion to concrete and well-weathered wood.
RHOPLEX™ DCR-521	Acrylic	57.5	25	Y	For use in higher PVC deck and concrete restoration coatings. Provides excellent scrape resistance in a 1K all acrylic binder system.

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Elastomeric wall and semi flexible coating binders

Product	Type	Solids (%)	MFFT (C°)	APEO Free*	Elastomeric coating	Semi-flexible	Description
RHOPLEX™ 2438C	Acrylic	50	< 0	N	•		Excellent exterior durability over a wide range of temperatures including excellent DPUR in elastomeric applications.
RHOPLEX™ EC-3814	Acrylic	60	< 0	Y	••		Binder with outstanding alkali resistance in addition to an excellent balance of elongation, tensile strength, and dirt pick up resistance over a wide temperature range. Can be formulated at higher PVC while still maintaining excellent mechanical performance.
RHOPLEX™ 78	Acrylic	60	< 0	Y	••		Premium high solids APEO free elastomeric binder with best dirt pick up resistance and good balance of elongation and tensile strength.
RHOPLEX™ 585	Acrylic	58.5	6	Y		••	High-solids binder designed for premium exterior performance. Excellent exterior durability including DPUR, crack resistance and tint and gloss retention. Great for semi-flexible coating applications.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

Sports surface binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Ranking	Description
RHOPLEX™ ML-200	Acrylic	53.5	10	N	•	Excellent exterior durability, film build, chalk adhesion and abrasion resistance for sports surface coatings.
RHOPLEX™ SS#4	Acrylic	60.5	7	Y	••	Binder designed to resist the rigorous environments encountered on many exterior sports surfaces. Facilitates highly filled coatings with high-build capabilities needed for tennis courts, tracks and other sports surfaces.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

Masonry binders

Product	Type	Solids (%)	MFFT (C°)	APEO free*	Interior	Exterior	Ranking	Description
RHOPLEX™ 585	Acrylic	58.5	6	Y	✓	✓	••	High-solids binder designed for premium exterior performance. Excellent exterior durability including DPUR, crack resistance and tint and gloss retention. Offers versatility for variety of applications. Great choice for masonry coatings.
RHOPLEX™ VSR-50	Acrylic	45.5	8	Y	✓	✓	••	Premium binder with excellent alkali and efflorescence resistance, DPUR, crack resistance and tint and gloss retention. In addition, offers excellent household stain removal and block resistance. Great choice for masonry coatings.
RHOPLEX™ 2510	Acrylic	42.0	18	Y	✓	✓	••	Dual ambient crosslinking technology allows this binder to be formulated into excellent coatings and sealers for cementitious and masonry substrates. Great choice for 1K pigmented garage floor coatings.
RHOPLEX™ VSR-1065	Acrylic	50.0	2	Y	✓	✓	•	Versatile sheen resin with ambient crosslinking; offers exceptional scrub resistance, household stain and block resistance and excellent exterior durability.
RHOPLEX™ VSR-5102	Acrylic	50.0	0	Y	✓	✓	•	Low-odor binder that is solvent-free capable with no coalescing agent required. Very good household stain removal, block, and scrub resistance, along with excellent exterior durability. Good over masonry.
RHOPLEX™ 2500	Acrylic	50.0	17	Y	✓	✓	•	Binder for exterior masonry coatings (paints, primers, sealers and block fillers). Good exterior durability.
RHOPLEX™ AC-261LF	Acrylic	50.0	16	Y	✓	✓	•	Versatile binder for masonry coatings as well as latex floor paints.
RHOPLEX™ AC-337N	Acrylic	45.5	14	Y		✓	•	Binder can be used for masonry coatings providing good adhesion, efflorescence and alkali resistance. Good choice for concrete sealers and stains as well.
RHOPLEX™ AC-347	Acrylic	50.0	15	Y	✓	✓	•	Binder developed for use in interior and exterior masonry coatings. Excellent adhesion and very good scrub resistance.
RHOPLEX™ SG-10AF	Acrylic	50.0	16	Y	✓	✓	•	Workhorse binder with excellent early block resistance and very good scrub resistance. In addition, has good exterior durability.
RHOPLEX™ SG-20	Acrylic	45.5	15	Y	✓	✓	•	Binder with early block resistance, and excellent household stain resistance and removal. In addition, offers excellent exterior durability over masonry.
RHOPLEX™ 732	Acrylic	45.0	8	Y	✓	✓	••	Acrylic binder designed for premium performance with excellent metal and other substrate adhesion and top coat properties. Good stain blocking and sandability for use as a universal primer. Versatile use in exterior broad wall and basement waterproofing paint.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.





Clear sealer binders

Product	Type	Solids (%)	MFPT (C°)	APEO free*	Ranking	Description
RHOPLEX™ 2510	Acrylic	42.0	18	Y	• •	Binder can be used for masonry coatings and clear sealers offering versatile wet or natural look, gloss, excellent adhesion and durability, chemical resistance, and superior water whitening resistance. Good choice for concrete sealers and stains.
RHOPLEX™ CS-4000	Acrylic	48.0	27	N	•	Binder developed for use in coatings for cementitious and other non-resilient surfaces. Good choice for concrete sealers and stains.
RHOPLEX™ HG-98B	Acrylic	45.0	24	Y	• •	Binder can be used for masonry coatings and clear sealers offering a combination of durability, water whitening resistance, adhesion, and chemical resistance. Good choice for concrete sealers and stains.

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Garage floor coatings

Product	Type	Solids (%)	MFPT (C°)	APEO free*	Ranking	Description
RHOPLEX™ 2510	Acrylic	42.0	18	Y	• •	Binder can be used for pigmented water-based 1K garage floor coatings offering adhesion to various concrete surface profiles, great hot tire pickup resistance, and excellent chemical resistance.

*Made without APEO surfactant. Properties are typical but not to be construed as specifications.

**Dow Coating Materials
US**

dow.com

Toll Free 800 441 4DOW
 989 832 1542

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