QUAKER COLOR
A Step Ahead...

Quaker Color was established in 1968 and operates today as a Specialty Chemical Company servicing the global coatings industry through its highly efficient manufacturing capabilities and innovative technology.

Binder and coating systems for rubber, elastomer, and flexible plastic substrates

Quaker Color formulates and manufactures cost effective solutions for binders and coatings used for performance enhancement of flexible substrates. We have extensive experience in blending of resins to produce a resin system meeting the most demanding performance or economic requirements.

Our core product line is aqueous Polyurethane Dispersions (PUD). Additionally, we formulate Acrylic and hybrid PUD/ Acrylic resin systems.

Single resin systems include PUDs with tensile values ranging from <1000 to >5000 psi; Elongation values of >1000% to <200%. Our Acrylic resins have Tg(s) ranging from -30 to +50 C.

In many cases an application will require a variety of properties to meet performance requirements. These can include adhesion, flexibility, toughness, chemical resistance among others. We have several fully formulated versions for specific properties such as stain and soiling, difficult to adhere to substrates, high gloss optically clear, and tough anti-slip coatings.

Our single or blended resins can be formulated to act as binders for granulated EPDM or TPO materials. Other products and blends are available to formulate coatings that can be applied to elastomeric and foam materials (gaskets, flooring, insulation, roofing) or films (PVC, Polyester and others).

Our systems are generally applied as two-part system using a crosslinker*

Why use a Quaker Color PUD or PUD blended resin system? Our resin systems are water based, easy to apply by a variety of methods, and generally low in VOC.

- PUDs provide improved adhesion and binding of upper layers of "poured-in-place" surfaces.
- Easy repair of damaged surfaces
- PUDs applied to flexible surfaces can improve mar and wear characteristics
- PUDs can provide desired haptics, modifying surface feel and Coefficient of Friction
- PUD coatings can impart stain resistance and improve cleanability
- The coating can be a vehicle for pigmentation, UV protection and antimicrobial properties
- Blends and formulated products can be customized to meet specific application requirements

Products

Products

RC 1000 – *blended resin systems, used primarily as binders and adhesion promoters in granulated rubber systems. Requires formulation. Can be pigmented and gloss adjusted.*

Product	Description	Tensile (psi)	Elongation (%)	% Solids	VOC g/L (as supplied)
RC 1010	PUD/Acrylic	1950	730	34	32
RC 1011	PUD/Acrylic	2750	710	33	52
RC 1020	PUD	2800	1100	32	46
RC 1030	PUD/Acrylic	1350	800	34	24

RC 2000 – *blended resin systems used primarily as a topcoat to improve appearance and surface properties. Requires formulation. Can be applied as a clear coat or pigmented. Gloss levels are adjustable.*

Product	Description	Tensile (psi)	Elongation (%)	% Solids	VOC g/L (as supplied)
RC 2010	PUD	4600	820	33	38
RC 2011	PUD	4250	800	32	62
RC 2012	PUD	5035	809	33	62
RC 2020	PUD/Acrylic	5055	450	34	61

* Crosslinker Products

Our crosslinker products can be stirred in at point of use typically in the 3-5% by weight range

- XL 1219 – multi-functional, water-based carbodiimide; primary performance is improved chemical resistance
- AM 1506XL – water dispersible isocyanate; primary performance is improved wear characteristics

Products

RC 3000 – formulated ready-to-apply products, imparting high-performance properties including stain resistance, adhesion to low energy substrates, low gloss, extreme toughness. These products are packaged as clears and would require pigmentation if required.

- RC 3010 – Very tough, low gloss coating for application to low energy substrates and elastomers. Good chemical, mar, and scuff resistance.
- RC 3020 – basic, general purpose low gloss coating to improve appearance and cleanability. When applied can aid adhesion and sealing of ground EPDM surfaces.
- RC 3030 – stain resistant coating for application to elastomeric and rubber flooring. Shows stain resistance to red wine, coffee, mustard, common cleaners among others
- RC 3040 – extremely tough coating that can be applied to several substrates. Can be made slip resistant with use of anti-skid additives.
- RC 3050 – high-gloss, high-clarity coating that can be applied to films to provide chemical, mar and scratch resistance.

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