



TECHNICAL BULLETIN

QUENCH™ Rx AC

FLAME RETARDANTS

PRODUCT DESCRIPTION

Quench™ Rx AC is the trade name for a new line of flame retardant acrylic dispersions which incorporate JAINCHEM's proprietary *Quench™ Rx* flame retardant technology. The *Quench™ Rx AC* products were specifically developed to maximize flame retardant performance and range of use in water-based adhesives and coatings.

Typical Properties

Total Solids (%)	45.0
Bromine Content (%)	17.0*
pH	9.0
Viscosity (cps)	1,500
Density (lbs/gallon)	10.5
Appearance	white liquid

*Note 21.0 % bromine for "HP" grades

Application Methods

Quench™ Rx AC products can be added directly to most neutral or alkaline pH, water-based coating and adhesives systems. Often they can simply be diluted with water and applied directly to the substrate to be flame retarded. Typical application rates range from 20% to 30% *Quench™ Rx AC* solids based on the total weight of the finished material.

Quench™ Rx AC forms very stable dispersions in water at any concentration, using only minimal agitation. Product separation and settling occurs very slowly once agitation is removed. In general, *Quench™ Rx AC* dispersion stability improves at higher pH. Dispersion stability is greatly reduced at pH's below 6.5.

Quench™ Rx AC products can be dried using any conventional system utilized for drying materials or composites manufactured with water-based coatings and adhesives.

Quench™ Rx AC is stable to temperatures in

MARKET USES

- Textile Coatings
- Paper / Film Laminating
- Construction Adhesives

Packaging

Quench™ Rx AC products are available in 55 gallon drums, 275 gallon totes, and in bulk tanker loads.

Handling / Storage Stability

Keep from freezing. Store in cool, dry area i.e., 70-80°F. Keep away from high heat to retain a six-month shelf life.

Product Safety

JAINCHEM's *Quench™ Rx* flame retardant technology contains no HAPS, VOC's, or SARA reportable compounds. Any reportable or regulated content in *Quench™ Rx AC* products results from trace raw materials present in the various acrylic binders used to manufacture each *Quench™ Rx AC* product.

Quench™ Rx AC products are classified as non-hazardous liquids. As with all industrial chemicals, basic handling precautions are recommended. Avoid skin contact. Avoid mist inhalation or eye contact. Wear protective clothing and goggles if there is a chance of exposure. Prolonged skin contact may produce irritation.

When considering the use of **JainChem** and **Ulterion International** products, please refer to the latest Material Safety Data Sheets (MSDS). If you require an MSDS for this product; please call (864) 609-0910 or your **JainChem** or **Ulterion International** Representative.



JAIN CHEM, LTD
Ulterion International, LLC.
200 Tanner Drive
Taylors, SC 29687
Phone: (864) 609-0910
Fax: (864) 331-4264
www.jainchem.com
www.ulterion.com

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 JAINCHEM
Creating Innovative Technologies™

The Quench™ Rx AC Series

Product Designation	Acrylic Tg C
Quench Rx AC-233	-40
Quench Rx AC-248	-25
Quench Rx AC-258	-15
Quench Rx AC-273	0
Quench Rx AC-283	10
Quench Rx AC-303	30

Note: Higher bromine "HP" grades available



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