

General purpose film-forming self-crosslinking acrylic polymer

For further information regarding this product please refer to:

Douglas Watt

Tel: +1 330-794-6354

eMail: douglas.watt@synthomer.com

Property	Typical Value	Unit	Method ¹
Solids Content	60	%	EN ISO 3251
pH Value	5.0		DIN ISO 976
Ionic Character	anionic		
Mean Particle Size	300	nm	intern
Glass Transition Temperature	-4	°C	DIN 53765
MFFT	0	°C	
Viscosity (LVT #2, 30rpm @25°C)	< 420	mPa s	ISO 1652
Density	1.08	g/cm ³	DIN 51757
Surface Tension	36	dyne/cm	
Crosslinking	self crosslinked		

¹ internal method based upon the specified norm

Application Advice

Acrygen 1878 general purpose film-forming self-crosslinking acrylic emulsion polymer is used as a binder in pigmented and filled coatings, nonwovens, textiles, laminates, flocking, leather and paper.

- Adheres to fibers, inorganic particles and pigments
- Compatible with crosslinkers and catalysts
- Compatible with alkali-swellable thickeners

Application Notes:

- Can be applied by spraying, printing, nip padding, impregnating, and roll or knife coating
- Can be mechanically foamed
- Compatible with many fillers
- Pigmented coating compounds have optimum stability at pH 9
- pH adjustments can be made with ammonia

Drying above the minimum film-forming temperature leaves a clear, colorless film, which is soft and flexible at room temperature. Complete crosslinking is achieved by heating above 135 °C (275 °F). A fully crosslinked film is insoluble in water, acids, alkalis and organic solvents.

Shipping and Storage

This product is supplied in road tankers or in non-returnable plastic drums or in totes (IBC). The product must be protected from frost and exposure to direct sunlight. Storage temperatures between +5 °C and +30 °C are recommended. Care must be taken that drums and containers are properly closed. During storage, shipping and handling contact with metal surfaces that are not corrosion protected must be avoided. When stored properly, the product has a shelf life of 12 months from the date of delivery. This product is not freeze-thaw stable.

Product Safety

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.