

Hydrophobic acrylate copolymer for the formulation of waterproof coatings and binders

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 <sup>1</sup>
Chemistry Type	acrylic		
Solids Content	45	%	EN ISO 3251
pH Value	7.3		DIN ISO 976
Ionic Character	anionic		
Mean Particle Size	small		intern
Glass Transition Temperature	20	°C	DIN 53765
Viscosity (RVT #1@50rpm, 25°C)	< 150	mPa s	ISO 1652
Density	1.05	g/ml	
Surface Tension	38	dyne/cm	
MFFT	15	°C	
Non-Volatile Content	70 ± 1	%	

<sup>1</sup> internal method based upon the specified norm

## Application Advice

SYNTHEBOND AC 3158 fluid repellent provides a hydrophobic coating for waterproof textiles and nonwovens, and acts as a binder and saturant for paper, tape and label applications.

- Improved water holdout
- Fast penetration and low temperature cure
- High temperature stability and UV resistance
- Additive to improve hydrophobic properties

### Application Notes:

- Can be used in hydrophobic coatings for waterproof textiles, nonwovens, as an adhesion aid to glass fiber substrates and as a paper impregnation agent. SYNTHEBOND AC 3158 can also be used as an additive or a sealer for cementitious materials.
- Improves water holdout and has high temperature stability of the finished saturated paper. It may be used alone or as an additive to a system to improve hydrophobic properties.
- Can be applied by spraying, printing, nip padding, impregnating and roll or knife coating. It can be mechanically foamed.
- Compatible with many fillers. It has excellent stability in highly filled systems. Pigmented coating compounds have optimum stability at pH 8.5. Ammonia can be used to adjust pH.
- Methyl cellulose, carboxymethyl cellulose or hydroxyethyl cellulose are suitable thickeners in acidic systems.
- Drying above the minimum film-forming temperature leaves a clear, colorless film, which is semi-soft and flexible at room temperature. This film offers exceptional water and blush resistance. The fine particle size allows good penetration into substrates, which provides for good sealer performance. For air dry applications, this polymer has low coalescent demand.

## 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. - Mix the contents thoroughly before using. - 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.