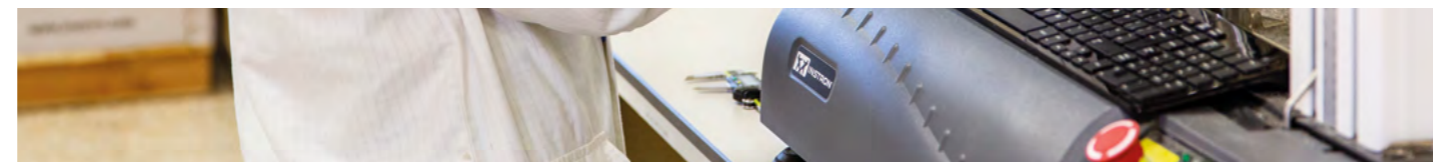




Functional Polymers Global Product Guide



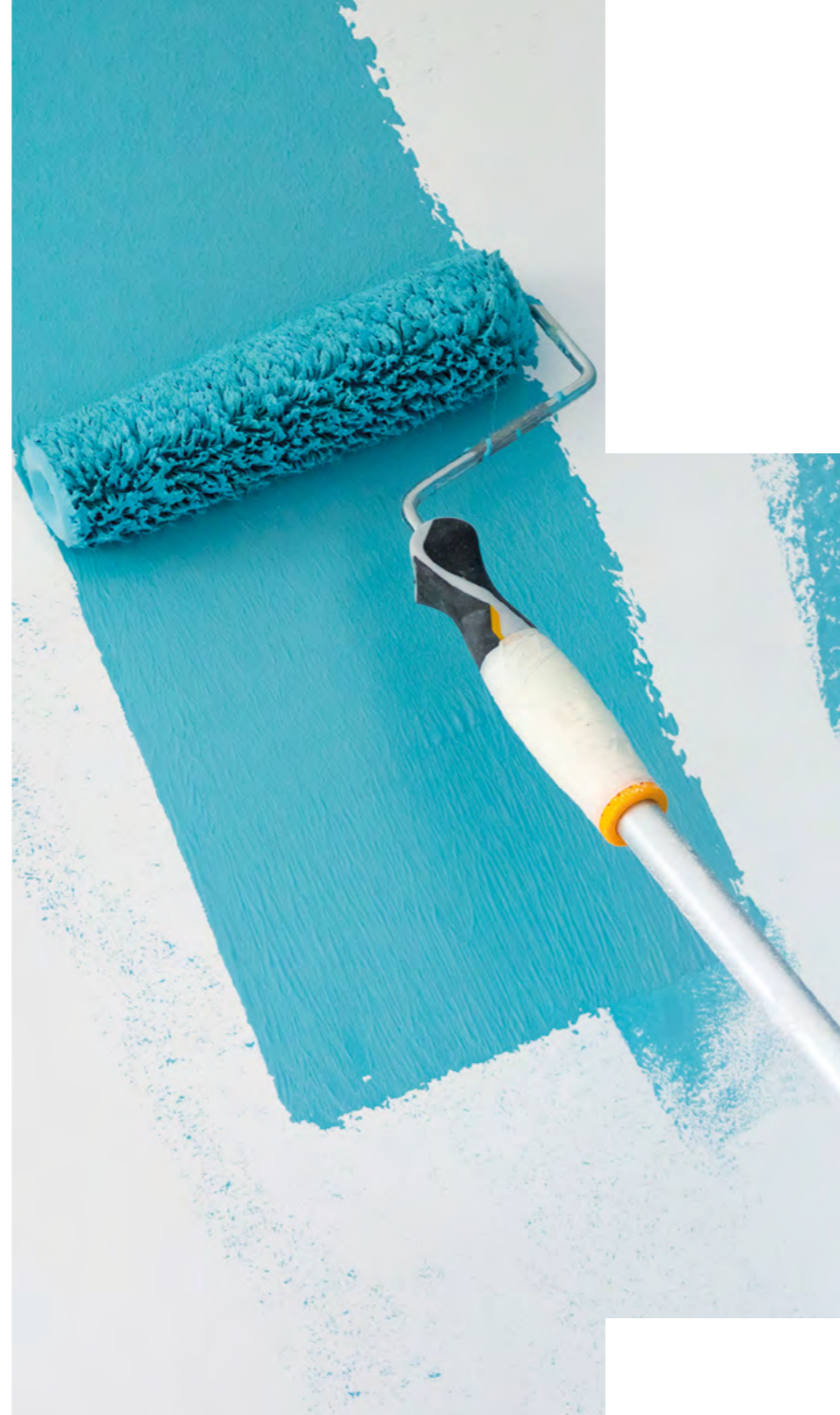


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in water-based and
solvent borne chemistries,
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Since 1921, Scott Bader has manufactured chemicals that are used in many of the products we rely on, every day. Today we work with industries, businesses and consumers the world over, providing the innovative functional polymers required to make the products we need. We are an established £300 million global chemical company employing over 800 people across 7 manufacturing sites and 18 global offices.





Contents



Building and decoration

Acrylic copolymer binders for various interior and exterior applications.

6



Food packaging

A wide range of styrene acrylic copolymers to suit various packaging applications.

8



Rheology modifiers

Next generation inverse emulsion thickeners for a wide range of applications.

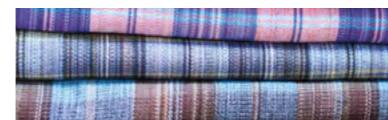
10



Speciality

Unique polymers used in various specialised applications.

12



Textiles

Our range of acrylic copolymers for pigment thickening and binding.

14

Building and decoration



Product name	Product description	Solids content	pH	Viscosity at 25°C	Particle size	Minimum film formation temperature*	Glass transition temperature
Texicryl 13-066	A styrene acrylic copolymer emulsion, designed primarily for the production of flexible, water-resistant ceramic tile adhesives.	50%	8	(Brookfield RVT, Spindle 4, 100 rpm) 700 mPa s	200 nm	0°C	4°C
Texicryl 13-074	An APEO free styrene acrylic copolymer emulsion which has been developed for use in mixes containing Portland cement.	57%	8	(Brookfield RVT, Spindle 4, 100 rpm) 600 mPa s	300 nm	< 0°C	-13°C
Texicryl 13-601	A pure acrylic copolymer emulsion designed for use in both interior and exterior coating applications. This is a core-shell product.	50%	8.5	(Brookfield RVT, Spindle 2, 100 rpm) 75 mPa s	140 nm	0°C	8°C
Texicryl 13-602	A general-purpose styrene acrylic copolymer emulsion designed for use in flexible fillers and caulks.	50%	8	(Brookfield RVT, Spindle 4, 100 rpm) 1500 mPa s	135 nm	25°C	30°C
Texicryl 13-605	A pure acrylic copolymer emulsion designed for use in a broad range of formulations requiring low VOC, low water uptake and excellent resistance to water blanching.	50%	8.5	(Brookfield RVT, Spindle 4, 100 rpm) 450 mPa s	130 nm	11°C	15°C
Texicryl 13-619	A styrene acrylic copolymer emulsion designed for formulation of co-solvent free construction adhesives.	50%	8.3	(Brookfield RVT, Spindle 1, 20 rpm) 350 mPa s	200 nm	10°C	15°C
Texicryl 13-645	A high efficiency styrene acrylic binder which exhibits excellent resistance to water blanch. This product also has a strong adhesion to metal.	45%	8.5	(Brookfield RV8, Spindle 3, 20 rpm) 2500 mPa s	115 nm	19°C	22°C

*Determined by metal bar with temperature gradient.

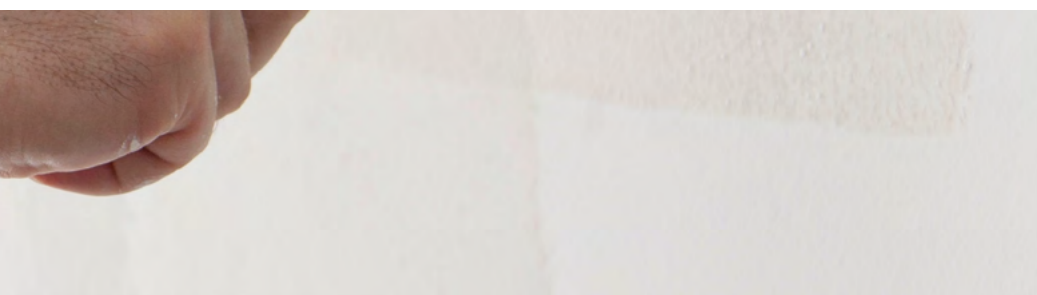
Food packaging



Product name	Product description	Solids content	pH	Viscosity at 25°C	Particle size	Minimum film formation temperature*	Glass transition temperature
Texicryl 13-525	A modified styrene acrylic copolymer designed to be the main binder in the formulation of blister seal adhesives with superb graphic qualities. The polymer will suit other heat-seal applications as well as being suitable as a modifier.	50%	8.3	(Brookfield RVT, Spindle 4, 100 rpm) 500 mPa s	90 nm	0°C	-11°C
Texicryl 13-526	A high performance styrene acrylic copolymer emulsion designed for use in cold seal adhesive applications.	50%	4.5	(Brookfield RVT, Spindle 2, 20 rpm) 200 mPa s	145 nm	12°C*	19°C
Texicryl 13-527	A high performance styrene acrylic copolymer emulsion designed for use in cold seal adhesive applications.	50%	6.5	(Brookfield RVT, Spindle 2, 20 rpm) 90 mPa s	130 nm	26°C*	25°C
Texicryl 13-528	A high performance styrene acrylic copolymer emulsion designed for use in cold seal adhesive applications.	50%	6.5	(Brookfield RVT, Spindle 2, 20 rpm) 100 mPa s	130 nm	10°C*	9°C
Texicryl 13-823	An APEO-free styrene acrylic copolymer aqueous dispersion containing a natural wax, with excellent flexibility, and barrier & adhesion properties. Texicryl 13-823 has excellent flexibility, water resistance and MVTR properties.	45%	8.0	(Brookfield RVT, Spindle 4 @ 100 rpm) 1000 mPa s	100 nm	0°C	5°C
Texicryl 13-826	An APEO-free styrene acrylic copolymer aqueous dispersion with excellent flexibility, and barrier & adhesion properties. Texicryl 13-826 is suitable for use as the main binder for ink, designed for the direct food contact and with low free monomer content.	49%	8.5	(Brookfield RVT, Spindle 4 @ 100 rpm) 550 mPa s	100 nm	0°C	5°C

*Determined by metal bar with temperature gradient.

Rheology modifiers



Product name	Product description	Appearance	Solids content	Inverse emulsion viscosity	Specific gravity at 25°C (g/cm³)	Particle Size	pH	Thickened deionised water	Polymer charge
Texicryl 13-313	An alkali swellable thickener designed for water-based formulations. It is highly effective in modifying viscosities at low shear rates to avoid both settling and sagging.	White liquid	-	25 mPa s	1.05	-	-	-	Anionic
Texicryl 13-308	An alkali soluble emulsion designed as a thickener for water-based formulations.	White liquid	30.5%	-	1.07	200 nm	3	-	-
Texipol 63-202	An inverse emulsion thickener that imparts a pseudoplastic rheology to aqueous based compositions. It is supplied as a pre-neutralised dispersion as the sodium salt of an acrylic copolymer.	Creamy liquid	-	(Brookfield RVT, Spindle 3, 20rpm at 25°C) 1500 mPa s	1.05	-	-	>35000 mPa s	Anionic
Texipol 63-510	An inverse emulsion thickener that imparts a highly pseudoplastic rheology to aqueous based compositions. It is supplied as a pre-neutralised dispersion as the sodium salt of an acrylic copolymer and shows thickening over a very wide pH range of 2 - 12.	Creamy liquid	-	(Brookfield RVT, Spindle 3, 20rpm at 25°C) 3000 mPa s	1.05	-	-	>100,000 mPa s	Anionic
Texipol 63-513	A next generation inverse emulsion synthetic thickener with significant bio-content. Texipol 63-513 imparts pseudoplastic rheology to aqueous compositions and is supplied as a pre-neutralised dispersion as the sodium salt of an acrylic based polymer. Texipol 63-513 shows broad pH compatibility.	Creamy liquid	-	(Brookfield RVT, Spindle 6, 5 rpm at 25°C) 2750 mPa s*	1.13	-	-	(3%) >350 dPa.s	Anionic

*Deionised water thickened with 3% of Texipol 63-425/ Texipol 63-513 as supplied.

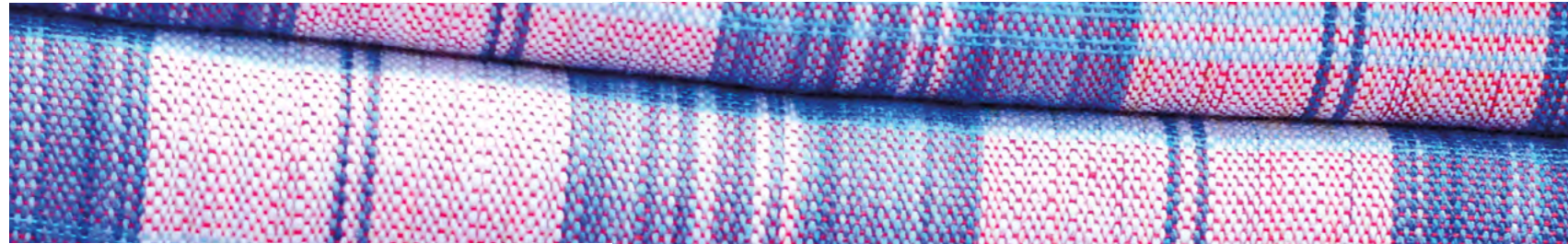
Speciality



Product name	Product description	Solids content	Viscosity at 25°C	pH	Glass transition temperature	Minimum film formation temperature	Acid value
Texicryl 4025	An alkali swellable emulsion designed for water-based printing ink formulations. Texicryl 4025 is cross-linkable with thermoset resins, compatible with solvents and other resin systems.	50%	(Brookfield RVT, Spindle 2, 20 rpm) 80 mPa s	2.5	20°C	-	76 mg KOH/g
Texicryl 13-540	An APEO-free styrene acrylic copolymer aqueous dispersion with excellent flexibility and adhesion properties to difficult non-absorbent substrates which are difficult to wet out.	45%	(Brookfield RVT, Spindle 4 @ 100 rpm) 550 mPa s	100 nm	2°C	<-2°C	KOH/g 46g
Product name	Product description	Solids content	Viscosity at 25°C	pH	Glass transition temperature	Specific gravity at 25°C	Particle size
Texicryl 13-314	An acrylic copolymer emulsion that can be hydrolysed under alkaline conditions for use as a thickener in aqueous-based systems.	40%	(Brookfield RVT, Spindle 2, 20 rpm) 30 mPa s	3	25°C	1.09 g/cm ³	220 nm
Product name	Product description	Appearance	Inverse emulsion viscosity	Specific gravity at 25°C	Thickened deionised water	Polymer charge	
Texipol 63-400	An inverse emulsion thickener that imparts a pseudoplastic rheology to aqueous based compositions, for use in H I & I markets. It is supplied as a pre-neutralised dispersion as the sodium salt of an acrylic copolymer.	Creamy liquid	(Brookfield RVT, Spindle 3, 20rpm at 25°C) 1500 mPa s	1.05	>35000 mPa s	Anionic	
Texipol 63-425	A next generation inverse emulsion synthetic thickener based on a significant proportion of bio-derived content for use in H I & I markets. Texipol 63-425 imparts pseudoplastic rheology to aqueous compositions and is supplied as a pre-neutralised dispersion as the sodium salt of an acrylic based polymer. Texipol 63-425 shows broad pH compatibility.	Creamy liquid	(Brookfield RVT, Spindle 6, 5 rpm at 25°C) 27.5 dPa.s*	1.13	(3%) >350 dPa.s	20°C Anionic	
Texipol 63-450	An inverse emulsion thickener that imparts a highly pseudoplastic rheology to aqueous based compositions, for use in H I & I markets. It is supplied as a pre-neutralised dispersion as the sodium salt of an acrylic copolymer and shows thickening over a very wide pH range of 2 - 12.	Creamy liquid	(Brookfield RVT, Spindle 3, 20rpm at 25°C) 3000 mPa s	1.05	>100,000 mPa s	Anionic	

*Deionised water thickened with 3% of Texipol 63-425/Texipol 63-513 as supplied.

Textiles



Product name	Product description	Appearance	Solids content	pH	Viscosity at 25°C	Particle size	Specific gravity at 25°C	Thickened deionised water	Glass transition temperature	Polymer charge
Texicryl 13-103	A self-crosslinking acrylic copolymer emulsion characterized by a soft film giving, after crosslinking, a high resistance to washing and to primed or printed fabrics.	Creamy liquid	40%	4.5	(Brookfield RVT Spindle 1, 50rpm) mPa s 40	200 nm	-	-	-18°C	Nonionic
Texicryl 13-400	A cationic emulsion binder specially designed for textile applications. Texicryl 13-400 is formaldehyde free.	Creamy liquid	48%	3	20 rpm 500 mPa s	250 nm	-	-	-14°C	Cationic
Texipol 63-237	A multifunctional inverse emulsion thickener developed specifically for the pigment printing of textiles. It is supplied as a pre-neutralised dispersion as the ammonium salt of an acrylic copolymer.	Creamy liquid	-	-	Inverse Emulsion Viscosity (Brookfield RVT, Spindle 3, 20rpm) 1500 mPa s	-	1.05	>35000 mPa s		Anionic

Please contact your sales representative for more information on Cationic binders.



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