SLC™

The Synthetic Latex Company (Pty) Ltd

COMPANY PROFILE

The Synthetic Latex Company (Pty) Limited was established in 1966 as a joint venture with Revertex South Africa and styrene butadiene latex manufacturing technology from Doverstrand, Reichold, Synthomer and Yule Catto. The company was incorporated into Sentrachem which was bought by Dow Chemicals in 1997. The divestiture of Sentrachem from Dow Chemicals in 2003 resulted in a management buy out and the establishment of Karbochem Holdings, which presently wholly owns The Synthetic Latex Company (Pty) Ltd., Karbochem (Pty) Ltd. and Orchem (Pty) Ltd.

The latex manufacturing facility is characterized by several batch and continuous monomer addition reaction processes incorporating highly automated process control technology.

Environment, Health and Safety

The manufacturing processes are unique as each includes a steam stripping stage, ensuring low VOC products, illustrating commitment to being responsible and environmentally friendly and aligned to Responsible Care (by CAIA). In addition, global best practices in process safety standards ensure a safe working environment.

The Synthetic Latex Company (Pty) Ltd. also has an ISO 9001:2000 certification and the Karbochem Sasolburg site is ISO 14001 certified. The company also has NOSCAR rating and has a Five Star rating on the CMB 253 system, having received its 28th NOSCAR in 2009.

Technical and Quality

The Synthetic Latex Company (Pty) Ltd. is committed to achieving and maintaining the highest quality products. This is enabled by fully facilitated Quality Control (QC), Research & Development (R&D) and Application Testing Laboratories (ATL), ensuring that a high standard on product quality and consistency is continuously achieved.

The Synthetic Latex Company (Pty) Ltd. embraces innovation and development which is reflected by its technical subject matter experts who successfully continuously improve existing styrene butadiene latex products and have developed various styrene acrylate and pure acrylic emulsions with in-house technology for new and existing markets competing at the highest performance levels.

All new products are tested in application laboratories, where one such laboratory is the paint laboratory which has developed into a fully facilitated application testing centre, are equipped to test polymer emulsion properties and paint performance, enabling effective product development and new products that meet customer performance requirements.

Product Range

The Synthetic Latex Company (Pty) Ltd. has historically produced carboxylated (hot) and non carboxylated (cold) latices for the carpet, textile, paper, construction, adhesive, automotive and road markets and recently has developed styrene acrylate and pure acrylic emulsions for the carpet, textile and paint markets.

Location

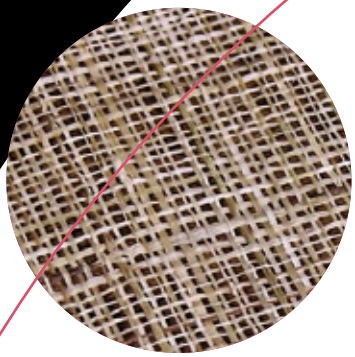
The latex plant is situated in Sasolburg, approximately 90km south of Johannesburg and the Sales and Marketing office is at Eastgate Office Park, Bruma.

SABS ISO 9001

SABS ISO 14001

NOSA ★★★★★ A MICROmega Company

Responsible Care OUR COMMITMENT TO SUSTAINABILITY



LATEX POLYMERS FOR THE CARPET INDUSTRY

1.1. Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 470	50	150	-20	9.0	Very flexible. Excellent processing characteristics. Non-staining antioxidant. Pre-coat, primary and secondary tufted carpets. Back coating woven carpets. Soft applications.
Savinex 470DM	50	150	-20	9.0	Very flexible. Excellent processing characteristics. Non-staining antioxidant. Antifoam. Pre-coat, primary and secondary tufted carpets. Back coating woven carpets.
Savinex 5721	50	150	0	8.5	Medium flexibility. Pre-coat and secondary tufted carpets. Woven and needle felt carpets. Secondary backing for froth applications.
Savinex 2015	50	750	+19	8.5	Medium Flexibility. Needle felt carpets for froth applications.
Savinex 62W40	50	100	+41	9.0	Stiff polymer. Pre-coat and secondary tufted carpets. Woven and needle felt for stiff applications. Heat mouldable carpets.

1.2. Carboxylated Polystyrene Latex

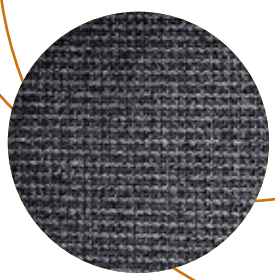
Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 2009	46	50	+100	8.0	Stiff polymer. Heat mouldable carpets.

1.3. Non Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 2114	65	750	-55	10.0	High solids. High filler tolerance and good compounding storage. Foam carpets with excellent resilience, tensile strength, surface abrasion resistance, low compression set and excellent surface appearance. Blended with natural latex for gel foam applications.

1.4. Styrene Acrylates

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 7301	50	150	+37	9.0	Stiff polymer. Woven and needle felt carpets for stiff applications.
Savinex 7302	50	150	-20	9.0	Very flexible. Tufted carpets for soft applications.




LATEX POLYMERS FOR THE TEXTILE INDUSTRY

2.1. Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 470	50	150	-20	9.0	Very flexible. Upholstery backing, fabric laminating and non-woven fabrics.
Savinex 576DM	50	150	-20	9.0	Very flexible. Fabric laminating.
Savinex 62W40	50	100	+41	9.0	Stiff polymer. Non-woven fabric impregnation and coating. Highly thermoformable and readily moulded at temperature >70°C. Shoe stiffener fabrics for toe puffs, counters and insoles.

2.2. Carboxylated Polystyrene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 2009	46	50	+100	8.0	Very stiff polymer. Saturation of flannel and non woven substrates for box toe and shoe counter applications.

2.3. Styrene Acrylates

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 7301	50	150	+37	9.0	Stiff polymer. Fabric impregnation and coating. Shoe stiffener fabrics for toe puffs, counters and insoles.
Savinex 7302	50	150	-20	9.0	Very flexible. Fabric laminating.

LATEX POLYMERS FOR THE PAPER & BOARD INDUSTRY

3.1. Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 98F10	50	150	-12	6.0	High dry and wet pick strength. Excellent chemical and mechanical stability. FDA and BGA compliant. Paper and board coatings.



LATEX POLYMERS FOR THE CONSTRUCTION INDUSTRY

4.1. Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 29Y40	47	50	+2	9.5	Cement additive improving adhesion, water resistance, tensile and flexural strength. Water resistance rendering. Damp resistance layers. Bond liquid for tile adhesive.

LATEX POLYMERS FOR THE ADHESIVE INDUSTRY

5.1. Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 80R10	50	150	-12	6.0	FDA and BGA compliant. Paper and board adhesives for food applications.

5.2. Non Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 6500	65	750	-55	10.0	High solids. Bitumen adhesive.

LATEX POLYMERS FOR THE ROADS INDUSTRY

6.1. Non Carboxylated Styrene Butadiene Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	Tg[1] (°C)	pH	Application
Savinex 5265	65	750	-55	10.0	High solids. Blended with non-ionic bitumen emulsions for spray applications. Modification required for blending with cationic bitumen emulsions.

Latex Polymers for the Coatings Industry

7.1. Styrene Butadiene Acrylic Latex

Product	Solids (±1%)	Viscosity[2] (Cps)	MFFT (°C)	pH	Application
Savinex PG45	45	100	0	9.0	Very flexible. Good binding, alkali and water resistance. Low VOC. General purpose, high PVC contractor paints and primer coats.
Savinex PG50	50	150	0	9.0	Very flexible. Good binding, alkali and water resistance. Low VOC. General purpose, high PVC contractor paints and primer coats.

7.2. Styrene Acrylates

Product	Solids (±1%)	Viscosity[2] (Cps)	MFFT (°C)	pH	Application
Savinex 7101	46	250	+18	9.0	Excellent binding, water and alkali resistance. Fine particle size. General purpose, low odour, medium to high PVC contractor paint and primer coats.
Savinex 7102	48	250	+6	9.0	Flexible. Fine particle size. Excellent binding, water and alkali resistance. Waterproofing compounds and flexible coatings.
Savinex 7103	50	250	+18	9.0	Excellent binding, water and alkali resistance. General purpose, low odour, medium to high PVC contractor paint and primer coats.
Savinex 7107	50	250	+12	9.0	Flexible. Fine particle size. Excellent binding, water and alkali resistance. Waterproofing compounds and flexible coatings.
Savinex 7108	50	250	<0	9.0	Very flexible. Fine particle size. Excellent binding, water and alkali resistance. Flexible coatings.
Savinex 7109	50	250	0	9.0	Very flexible. Fine particle size. Excellent binding, water and alkali resistance. Flexible coatings.
Savinex 8100	50	250	+18	9.0	Excellent binding, water and alkali resistance. High quality paint.

7.3. Pure Acrylics

Product	Solids (±1%)	Viscosity[2] (Cps)	MFFT (°C)	pH	Application
Savinex 7104	46	50	+18	9.0	Excellent scrub, water and alkali resistance. General purpose interior and exterior, flat, semi to gloss paints.
Savinex 7105	50	200	+12	9.0	Flexible. Excellent scrub, water and alkali resistance. Interior and exterior paints.
Savinex 7106	50	200	0	9.0	Very Flexible. Excellent scrub, water and alkali resistance. Interior and exterior paints.
Savinex 8200	50	200	+18	9.0	Adhesion promoted. Excellent water and alkali resistance. High quality interior and exterior paints.

[1] calculated value
[2] typical value

Product	Polymer Type	Solids	Viscosity[2]	MFFT °C	Tg[1] °C	pH	CARPET							TEXTILE					PAPER AND BOARD	CONSTRUCTION			ADHESIVE				ROADS	ARCHITECTURAL COATINGS					
							Tufted Pre Coat	Tufted Primary	Tufted Secondary	Foam	Woven	Needle Felt	Underlay	Heat Mouldable	Upholstery Backing	Fabric Laminating	Non - Woven Fabrics	Pigment Coating	Cement Additive	Renders and Screeds	Waterproofing	Tile Adhesive	Paste Tile Adhesive	Bitumen Adhesive	Paper and Board Adhesive	Bitumen Additive	Matt Paints	Sheen Paints	Gloss Paints	Contractor Paints	Waterproofing Compounds
Savinex 470	Carboxylated Styrene Butadiene	50%	150	-	-20	9.0	●	●	●		●				●	●	●															
Savinex 470DM	Carboxylated Styrene Butadiene	50%	150	-	-20	9.0	●	●	●		●																					
Savinex 576DM	Carboxylated Styrene Butadiene	50%	150	-	-20	9.0										●																
Savinex 5721	Carboxylated Styrene Butadiene	50%	150	-	0	9.0	●		●		●	●																				
Savinex 2015	Carboxylated Styrene Butadiene	50%	50	-	+19	8.5						●																				
Savinex 62W40	Carboxylated Styrene Butadiene	50%	100	-	+41	8.0	●		●		●	●		●			●															
Savinex 2009	Carboxylated Styrene	46%	50	-	+100	8.0								●																		
Savinex 98F10	Carboxylated Styrene Butadiene	50%	50	-	-12	6.0												●														
Savinex 80R10	Carboxylated Styrene Butadiene	50%	50	-	-12	6.0																			●							
Savinex 29Y40	Carboxylated Styrene Butadiene	47%	50	-	+2	9.5													●	●	●	●										
Savinex 7301	Styrene Acrylate	50%	150	-	+37	9.0	●		●		●	●					●															
Savinex 7302	Styrene Acrylate	50%	150	-	-20	9.0	●	●	●		●				●	●	●															
Savinex PG45	Styrene Butadiene Acrylic Latex	45%	100	0	-	9.0																								●	●	
Savinex PG50	Styrene Butadiene Acrylic Latex	50%	150	0	-	9.0																								●	●	
Savinex 7101	Styrene Acrylate	46%	250	+18	-	9.0																					●	●	●	●		
Savinex 7102	Styrene Acrylate	48%	250	+6	-	9.0																	●								●	
Savinex 7103	Styrene Acrylate	50%	250	+18	-	9.0																					●	●	●	●		
Savinex 7104	Acrylic	46%	50	+18	-	9.0																					●	●	●	●		
Savinex 7105	Acrylic	50%	200	+12	-	9.0																								●		
Savinex 7106	Acrylic	50%	200	0	-	9.0																									●	
Savinex 7107	Styrene Acrylate	50%	250	+12	-	9.0																								●		
Savinex 7108	Styrene Acrylate	50%	250	<0	-	9.0																									●	
Savinex 7109	Styrene Acrylate	50%	250	0	-	9.0																									●	
Savinex 8100	Styrene Acrylate	50%	250	+18	-	9.0																					●	●	●	●		
Savinex 8200	Acrylic	50%	200	+18	-	9.0																					●	●	●	●		
Savinex 5265	Non Carboxylated Styrene Butadiene	65%	750	-	-55	10.0																				●						
Savinex 6500	Non Carboxylated Styrene Butadiene	65%	750	-	-55	10.0																		●								
Savinex 2114	Non Carboxylated Styrene Butadiene	65%	750	-	-55	10.0				●			●																			

[1] calculated value
[2] typical value

The Synthetic Latex Company (Pty) Ltd

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