



Polymer Emulsions and Industrial Adhesives



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When you “Stick” with Halltech you’re sticking with quality



Halltech Inc.

Halltech Inc. aims to be the provider of choice for your **Polymer Emulsion & Industrial Adhesive** needs.

With our state of the art manufacturing facility, technical expertise and our ability to formulate products to specific customer requirements, we are able to service a wide variety of industries with competitive priced product in volumes as low as 20-litre pails through to Bulk Tanker loads.

Additionally, with our distribution line of Hot Melt Adhesives and Solvent Based Adhesives we are sure to have a solution for your needs.

Our 70 years of commitment to **Research & Development** extends beyond a general approach to market needs. Our innovative solutions focus on each of our customer's specific requirements. If we haven't as yet developed the right solution for your application, we are able to formulate products to provide the best Polymer Emulsion or Adhesive for your specific end use.

Our pride is our **Customer Service** where together with Technical Support every effort is made to ensure that our customers are always satisfied and their needs addressed.

We encourage you to contact us for more information on our products and how we can best assist you.

History

Halltech Inc. is an ISO-9001 manufacturer of Polymer Emulsions and Industrial Adhesives, with its head office and manufacturing facility located on 18 acres of land in Toronto, Canada and a sales office, with warehousing, in Quebec.

Halltech Inc. was established in 1981, although our business dates back to 1934 when the company first entered the Ontario market, as Stein-Hall Limited.

In 1984, Polycol was purchased by Halltech Inc. in order to increase our presence in the Quebec market. Polycol has been servicing the Quebec market with quality adhesives since 1965 and their commitment to Customer Service and Quality Product was seen as a natural fit.



What we do

We manufacture a wide variety of products that cover a broad spectrum of applications.

Some of the industries we service are as follows:

- **Emulsion Polymers** – paint, specialty paper, construction, adhesive, pressure sensitive adhesive and textile industries.
- **Adhesives** – automotive, packaging, construction, and woodworking industries.

Over 70 years of research & manufacturing experience has made Halltech a proven supplier of superior quality products that always exceed customer expectations.

Capabilities

With over 80,000 ft² of manufacturing and warehousing space, we are able to produce over **75,000,000 lbs / year** of product to meet any need that you may have.

Our packaging capabilities, allows us to provide our customers with a wide range of choices from pails up to bulk shipments.

We currently ship product throughout North America and export to Europe, Asia and Australia.



- **Equipment:**
5 Reactors (2,220 / 6,000 gal)
- **Storage Tanks:**
Finished Goods - 16 Tanks (5,000 / 12,000 gal)
Raw Material (Monomers) - 7 Tanks (10,000 / 22,000 gal)
Raw Material (Other) - 8 Tanks (3,000 / 14,500 gal)
- **Rail line on site**

Polymer Emulsions

Halltech Inc. offers a wide range of specially formulated line of high performance Polymer Emulsions for use in the coatings, paints, adhesives, non-woven textiles paper, building construction and other specialty materials that help you improve your products and processes.

- We offer:
- Vinyl acetate homopolymers (PVAc)
 - Vinyl acetate copolymers, vinyl acrylics, veova, etc.
 - Pure acrylics, styrene acrylics
 - Specialty polymers



HALLTECH POLYVINYL ACETATE EMULSION POLYMERS

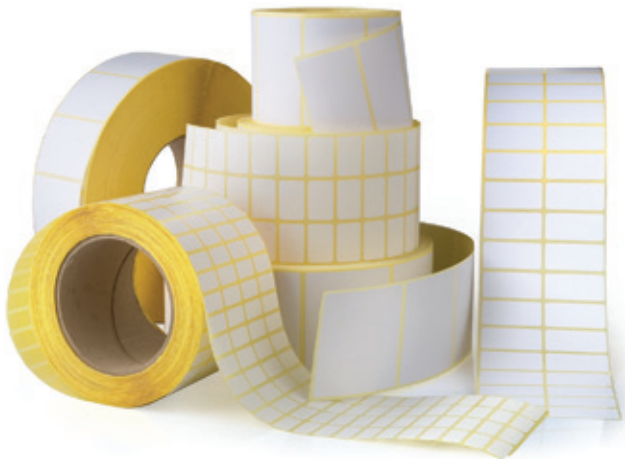
PRODUCT	VISCOSITY cps	SOLIDS %	pH	PARTICLE CHARGE	PARTICLE SIZE (MICRONS)	Tg (°C)	RELATIVE DENSITY	BORAX STABILITY	F/T STABILITY	SUGGESTED APPLICATIONS
VINREZ 202AP	3500 - 4500	54 - 57	4.0 - 5.0	Nonionic	2.0	34.0	1.10	Unstable	Stable	General purpose adhesive and heat seal coating
VINREZ 202AF	2500 - 3500	54 - 56	4.0 - 5.0	Nonionic	2.0	34.0	1.10	Unstable	Stable	Specialty adhesives and heat seal coatings
VINREZ 1252	20,000 - 40,000	49 - 51	5.0 - 6.0	Nonionic	1	25.0	1.09	Unstable	Stable	Wood adhesives and parquet flooring adhesives
VINREZ 1253	2500 - 3500	53 - 56	4.0 - 5.0	Anionic	0.8	31.0	1.10	Stable	Unstable	Speciality adhesives
VINREZ 1262	200 - 600	60 - 62	4.0 - 5.0	Nonionic	1	24.0	1.10	Stable	Stable	Dextrin compatible emulsion
COPOLYMERS										
VINREZ 663 V15	1500 - 2500	54 - 56	4.2 - 5.2	Anionic	0.35	18.0	1.09	Stable	Stable	Interior flat and semi gloss paints, Intumescent coatings
VINREZ 1227 HS	4000 - 5000	57 - 59	4.0 - 5.5	Nonionic	1.2	12.0	1.1	Unstable	Unstable	Specialty adhesives Packaging
VINREZ 1219K	< 500	45 - 47	4.0 - 5.5	Anionic	0.25	-23.0	1.08	Stable	Unstable	Non-woven binder textile coating Speciality adhesives
HP 31-355	500 - 2500	57 - 59	4.0 - 5.0	Nonionic	0.7	5.0	1.11	Stable	Stable	Joint Cement Compounds
HP 31-681	< 500	54 - 56	4.2 - 5.2	Anionic	0.3	2.0	1.09	Stable	Stable	Low VOC Paint Emulsion
HP 31-654	700 - 1300	54 - 56	4.0 - 5.0	Anionic	0.32	18.0	1.07	Stable	Stable	Outdoor Intumescent coatings
HP 31-316	1000 - 2000	49 - 51	4.2 - 5.2	Anionic	0.32	25.0	1.09	Stable	Stable	Flat paint emulsion for ceiling tiles
HP 9-10 PG	< 500	46 - 50	4.0 - 6.5	Anionic	0.25	15.0	1.09	Stable	Stable	Seed coating Emulsion

Pressure Sensitive Adhesives

Halltech Inc. produces a complete line of high high-performance water based Pressure Sensitive Adhesives specialized for use in the packaging, and durable goods industries for foils and films, tapes and labels.

Our adhesives offer various combinations of peel, tack and shear strength for your specific application.

- General Purpose PSA
- Plasticizer migration resistant for vinyl film and labels
- Low temp for freezer labels to -50c
- Removable and repositionable labels
- Clear labels for plastic or glass bottles and containers
- Can be used to manufacture blended adhesives or for bonding carpet tiles or as general purpose psa
- Used for lint rollers, or to manufacture blended adhesives for packaging



HALLTECH PRESSURE SENSITIVE ADHESIVES

PRODUCT	VISCOSITY cps	SOLIDS %	pH	180° PEEL STAINLESS STEEL (g)	SHEAR	BALL TACK #	REMARKS
ADH 2609	1000 (max)	53 - 57	4.5 - 6.5	800	>160 HRS 1"x1"x 1Kg @ 80°C	3 - 7	Very high shear, excellent heat & aging resistance. Duct tape application.
HP 22-434	150 - 600	52 - 54	7.5 - 8.5	800	>200 Minutes 1"x1"x 1Kg @ 40°C	8 - 12	Excellent Adhesion at low temperature, Freezer Grade labels, Good mandrel Hold, APEO Free.
HP 38-321	700 - 1500	56 - 58	4.0 - 6.5	700	>24 Hrs (1/2"x1/2"x 500 g @ RT)	8 - 12	Excellent Adhesion at low temperature, Photograph Preservation. APEO Free.
HALLTAK 2586V5	1000 Max.	63 - 65	4 - 6	1200	25 Minutes (1/2"x1/2"x 1Kg @ RT)	8 - 12	Labels, tapes, carpet tile, General Purpose PSA.
HP 30-389	400 - 600	50 - 53	8 - 9	1000	2 Hrs (1"x1"x 1Kg @ 40°C)	8 - 10	General Purpose Labels, Airline Tags. Etc.
HP 38-19MV22	2000 - 2400	54 - 56	4.5 - 6.5	300	600 Minutes (1"x1"x 1Kg @ 40°C)	10 - 13	Removable Labels.
HP 41-595	1600 - 2000	51.5 - 53.5	4.5 - 6.5	1500	10 Minutes (1"x1"x 1Kg @ 40°C)	3 - 6	Pet Food Bags, Blended Adhesives.
HP 22-214	1000 - 3500	54 - 56	7 - 9	500	1 Hr (1"x1"x 1Kg @ 40°C)	6 - 8	Plasticizer Migration Resistant, Vinyl Films and Labels.

Halltech will custom manufacture emulsions to suit customer's needs.

Acrylic & Styrene Acrylic Copolymers

PRODUCT	VISCOSITY cps	SOLIDS %	pH	PARTICLE CHARGE	PARTICLE SIZE (MICRONS)	Tg (°C)	RELATIVE DENSITY	BORAX STABILITY	F/T STABILITY	SUGGESTED APPLICATIONS
STYREZ 2810	< 2000	49 - 51	8.0 - 9.0	Anionic	0.14	-15	1.02	Stable	Pass	Elastomeric wall and roof coatings
STYREZ 2888	< 1000	49 - 51	8.0 - 9.0	Anionic	0.15	5	1.05	Stable	Pass	Ceramic tile adhesive
HP 42-296	1000 - 5000	49 - 51	8.0 - 9.0	Anionic	0.15	5	1.05	Stable	Unstable	Non blush coatings for boxboard and masonry
HP 42-223	< 1500	49 - 51	8.0 - 9.0	Anionic	0.15	35	1.05	Stable	Stable	No APEO, glass scrims/textiles
HP 34-784	500 - 1000	48 - 51	8.5 - 8.75	Anionic	0.12	10	1.08	Stable	Stable	Binder for exterior decorative coatings
HP 42-1514	< 1000	49 - 51	7.0 - 8.0	Anionic	0.15	-5	1.05	Stable	Unstable	Base for wood clear coats
HP 42-1664	400 - 1500	47 - 49	7.0 - 8.0	Anionic	0.17	13	1.04	Stable	Unstable	Concrete primer
HP 34-731	< 500	49 - 51	8.0 - 9.0	Anionic	0.15	0	1.08	Stable	Unstable	Acrylic paint emulsion
HP 42-1060	< 1000	49 - 51	8.5 - 9.5	Anionic	0.17	-15	1.03	Stable	Stable	Elastomeric coatings Bitumen modifier
STYREZ 2845	< 200	49 - 51	8.0 - 9.0	Anionic	0.16	5	1.05	Stable	Unstable	Ceramic tile adhesive Mastic adhesive
HP 42-1694	400 - 1000	49 - 51	8.0 - 9.0	Anionic	0.15	10	1.06	Stable	Unstable	Adhesion to metal Corrosion resistance
HP 42-1295	500 - 1500	49 - 51	8.0 - 9.0	Anionic	0.15	6	1.05	Stable	Stable	Stone & brick coating Blush resistant

Industrial Adhesives

Halltech Inc. has a long history as a leader in the developing and manufacturing of high quality Industrial Adhesives for use in a variety of applications ranging from packaging, woodworking, construction, paper converting, bag laminating and envelope / direct mail systems. Our strong customer focus, along with our drive for innovation and continuous improvement has contributed to our steady growth and presence.

We support this process by polymerizing our own basic raw materials, for our synthetic adhesive line, thus enabling us to tailor products to tight specifications

- We Offer:**
- Synthetic Adhesives (PVA Copolymer, EVA)
 - Water Based Contact Cement
 - Solvent Based Contact Cement
 - Dextrines Based Adhesives
 - Hot Melts
 - Latex Based Adhesives



HALLTECH ADHESIVES

PRODUCT	BASE POLYMER	VISCOSITY cps	SOLIDS %	REMARKS
PACKAGING ADHESIVES				
SUPERGRIP 1103	Copolymer Emulsion	450 - 550	49.0 - 53.0	Fast setting, Clean running for bonding difficult surface. Suitable for extrusion applications.
SUPERGRIP 1159	Copolymer Emulsion	4900 - 5500	57.5 - 60.5	Fast Grabbing, excellent wet tack, multi-purpose carton adhesive.
SUPERGRIP 1163V15	Copolymer Emulsion	1200 - 1800	51.0 - 54.0	Fast tacking, high solids multi-purpose adhesive. Excellent adhesion on many UV, Poly coated and other difficult to bond substrates in folding carton trade.
SUPERGRIP 1107	Copolymer Emulsion	3000 - 3600	54.5 - 58.5	Fast setting box shop adhesive for difficult to bond substrates including clay coating, recycled board.
SUPERGRIP 1193	Copolymer Emulsion	350 - 450	54.5 - 57.5	Multi-purpose adhesive with excellent adhesion to a variety of substrates including foil, paper, metal, PVC and most plastics. Suitable for film or foil laminating.
TS482	Copolymer Emulsion	1160 - 1440	54.5 - 57.5	Adhesive for boards with difficult to bond surfaces including clay, plastic coatings, UV coating and aqueous coating.
HALLTAK 2586V30HS	Acrylic Emulsion	3000 - 3800	55.0 - 57.0	Window adhesive for boxes and cartons. Excellent machinability and adhesion to a variety of films. Suitable product for freezer-pack boxes
WOOD ADHESIVES				
RESICOL 360	Homopolymer Emulsion	3000 - 5000	42.0 - 47.0	Excellent, general purpose wood working adhesive. Formaldehyde free. Passes test method ASTM-297 and CSA standard 0112-M.
SUPERSET 1071	Homopolymer Emulsion	7000 - 9000	50.5 - 53.5	Fast drying assembly wood glue for hardwoods. Formaldehyde free.
HP2-516C	Homopolymer Emulsion	2500 - 5000	51.0 - 53.0	Passes Type-II water resistance wood adhesive test.
WATER BASED CONTACT CEMENT				
HALLTEX 3299	Synthetic Elastomer	800 - 1000	51.0 - 53.0	Water based contact cement with excellent adhesion to high pressure laminate, wood, metals, foamed plastics etc. Long open time.
COLD SEAL ADHESIVES				
COLDSEAL 3092M	Natural Latex	300 - 400	53.0 - 57.0	Self Seal coating with excellent adhesion on to various coated stock used for candy bar wrappers.
PARQUET ADHESIVES				
PRO-500	Homopolymer Emulsion	14500 - 19500	56.0 - 60.0	Parquet adhesive for indoor, above grade use.
PRO-766	Homopolymer Emulsion	30000 - 35000	68.0 - 72.0	Prefinished Parquet adhesive for indoor, above grade use.

NOTE: HALLTECH INC. makes over 200 adhesives, consistently performing across a wide range of industrial applications, which often must be tailor made to meet the precise requirements of our customers.