



TAPE RELEASE AGENT SOLUTIONS

FIRST TO
INNOVATE
AND NEVER
IMITATE™



**HITAC REINVENTED A 70 YEAR OLD
TAPE RELEASE AGENT TECHNOLOGY.**

**YOU ARE INVITED TO TRY OUR
TECHNOLOGY FOR YOURSELF.**

**ALL HITAC PRODUCTS ARE
A LIQUID RELEASE AGENT
OFFERING SIGNIFICANT
PROCESSING IMPROVEMENT
OVER THE PVODC.**



REINVENTION, INNOVATION, & SUSTAINABILITY . . .

. . . THE HITAC STORY

HITAC invented, and is the first company in the world to commercialize per-dissolved high solids release agent solutions for tapes.

Our release agents are WATER BASED & SOLVENT BASED designed FOR PRESSURE SENSITIVE TAPES, and LABELS application.

HITAC is proud to have earned a trusted partnership with many of the world's largest PSA tape manufacturers in the last twenty years.



HITAC ADHESIVES AND COATINGS

We offer seven unique, non-silicone, high solids, per-dissolved in solution release agents for convenient and easy processing for tape manufacturers.



WATER BASED

- **HITAC RA-13W**
Water Based for film tapes – Standard Release
- **HITAC RA-15W**
Water Based for film tapes – Enhanced Release
- **HITAC RA-42W**
Water Based – for paper-backed tapes



SOLVENT BASED

- **HITAC RA-21 SERIES**
Standard Release
- **HITAC RA-23 SERIES**
Enhanced Release
- **HITAC RA-21S & RA-23S**
High total solids solution pre-dissolved in recoverable solvent. RA-21S and RA-23S are soluble in toluene at any concentration. Its thermally stable property offers significant processing improvements over PVODC release agent.
- **HITAC RA-21S-T & RA-23S-T**
Toluene Based Solvent





Release Agent products engineered for High Performance

Fully dissolved in a
Homogeneous Solution
during transport, storage
and the coating process

HITAC RA-13W

US PATENT NO. 6,613,859 B2

- Water based release agent.
- General purpose release coating for film tapes.
- Based on a modified polyurethane with easier processing properties than PVODC.
- No heating required during transportation and storage.
- RA-13W solution is stable, free of precipitation and gelation.
- Effective release in a variety of pressure sensitive tapes where the adhesive is based on SIS block copolymers, SBR, natural rubber, and solvenated acrylics.
- Effective release in OPP packaging tapes, polyethylene-backed diaper fastening tapes, vinyl and filament tape construction.
- Delivered at 29% Total Solids.

HITAC RA-15W

US PATENT NO. 6,632,537 B2

- Water based release agent solution.
- Enhanced Release Properties.
- No heating required during transportation and storage.
- RA-15W solution is stable, free of precipitation and gelatin.
- Yields easy to moderate unwind in premium packaging tapes, filament tapes, and the like.
- Effective release in a variety of pressure sensitive tapes where the adhesive is based on SIS block copolymers, SBR, natural rubber, and solvenated acrylics.
- Effective release in OPP packaging tapes, polyethylene-backed diaper fastening tapes, vinyl and filament tape construction.
- Delivered at 28% Total Solids.

HITAC RA-42W

US PATENT NO. 6,641,922 B2

- Water based release agent designed for paper-backed tapes with high total solids.
- Based on polyurethane/acrylic dispersion.
- Effective release in a variety of pressure sensitive tapes where the adhesive is based on SIS block copolymers, SBR, natural rubber, and solvenated acrylics.
- Delivered at 53% Total Solids.

HITAC WATERBASED RELEASE AGENTS RA-13W, RA-15 & RA-42W

Canadian Patent No. – 2446495
Euro. Patent No.– EP1397245

HITAC SOLVENT BASED RELEASE AGENTS

US PATENT PENDING

- Release agent pre-dissolved in recoverable solvent.
- Toluene based solvent.
- Stable solution during transportation, storage, and coating even below freezing temperature.
- Prevent clogging the gravure rolls during coating application which decreases production downtime and waste.
- Easily integrates into most existing release coater production lines.
- Designed to release on most common types of adhesives, such as SIS, SIS/SB, SBR, natural rubber and acrylic based adhesives.
- Effective release for most backing materials such as polypropylene, polyethylene, polyester, PVC and paper.



INNOVATION THROUGH COLLABORATION

TYPICAL PROPERTIES

	RA-13W GENERAL RELEASE	RA-15W ENHANCED RELEASE	RA-42W FOR PAPER TAPES	RA-21S SOLVENT BASED	RA-21S-T TOLUENE BASED	RA-23S SOLVENT BASED	RA-23S-T TOLUENE BASED
APPEARANCE	CLEAR TO SLIGHTLY HAZY	CLEAR TO SLIGHTLY HAZY	MILKY	CLEAR	CLEAR	CLEAR	CLEAR
TOTAL SOLIDS	29%	28%	53%	39%	32%	37%	32%
VISCOSITY	400cps	400cps	50cps	200cps	800cps	200cps	800cps
pH	8	8	8	-	-	-	-

UNWIND ADHESION VALUE - g/2"(5cm) BASED ON PREMIUM OPP PACKING TAPE WITH SIS-BASED PSA

GREEN (OFF-SLITTER)	EASY - 300	EASY - 250	EASY - 300	EASY - 250	EASY - 250	EASY - 180	EASY - 180
AGE 150°F (65°C) FOR 72 HR	MODERATE - 550	MODERATE - 450	MODERATE - 450	MODERATE - 450	MODERATE - 450	MODERATE - 350	MODERATE - 350
AGE 120°F (49°C) AT 90% RH FOR 72HR	MODERATE - 450	MODERATE - 400	MODERATE - 400	MODERATE - 400	MODERATE - 400	MODERATE - 320	MODERATE - 320
SHELF STORAGE 12 MONTHS	MODERATE - 450	MODERATE - 400	MODERATE - 400	MODERATE - 400	MODERATE - 400	MODERATE - 320	MODERATE - 320



HITAC ADHESIVES & COATINGS
14722 SPRING AVENUE, SANTA FE SPRINGS, CA 90670
TEL: 562-802-8834 | FAX: 562-921-7363 | ORDERS@H2OBASE.COM | WWW.H2OBASE.COM