S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA
MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284, FAX.82-51-206-9048, E-mail:service@mkchem.com

ITEM LIST (WATERSOLUBLE LATEX ADHESIVES, NEWTEX)

NO	DIVISION	ITEM	MAIN COMPONENT	APPLICATION
1	Latex Adhesive	B-610H(W)	Polymer of NR latex and Synthetic latex derivative	Adhesion of Cotton and Uncured rubber
		D-710H(W)		
		D-810H(W)		
		LB-433H(W)		Heat-vulcanizing adhesives for upper materials Especially, Leather, Polyester, T.C
		LD-433H(W)		
		B-110H(W)		
2	Friction type	B-150F	Synthetic latex modifier	Coating agent for friction (Shoes, Belt, Hose, etc)
3	Adhesive for drawing of Insole	T-200H T-600H	Polymer of NR latex and Synthetic latex derivative	Adhesion of Texion and Tricot
4	Tackifier (Watersoluble)	CO-90	Synthetic Resin (Terpene)	Long Tacky Time
		CO-12603	Synthetic Resin (Phenol)	Short Tacky Time
5	Thickening Agent (Watersoluble)	VISCOMATE -20L	Sodium-Polyacrylate	Adhesion for Latex form sheet (Reinforcement of Viscosity and Adhesion)
6	Antioxidant for Latex	SP-EM	Stynrene Phenol Resin	Antioxidant for Natural Latex (Latex Sponge, Gloves, Balloon, nipple, Parts of Medicine)
		W-EM	Special Wax	
		BHT-EM	DBPC	
7	Hardener (Watersoluble)	WP-4(N)	Isocyanate	Hydrophile Property (Insoluble in Organic Solvent)
8	Coating Agent	MK-EM	Acryl Resin	Leather, Cotton, Texon, Chemisheet

ITEM LIST (WATERSOLUBLE LATEX ADHESIVES, NEWTEX)

NO	DIVISION	ITEM	MAIN COMPONENT	APPLICATION
9	Wetting Agent	MK-5	Denaturant of organic Fatty Acid	Permeating Agent, Reinforcing Agent for Leather's Physical Properties
10	Improver of Latex Reactivity	MK-2030	Acryl Modifier	Additive of Natural and Synthetic Latex
11	Mark's spraying Agent	MGR	Poly-vinyl-alcohol	Rubber boots' making, mold coating, the painting
12	Hot Melt Adhesive	HA-70H(W)	Organic highly polymerized compound	Back of Toe-Cap (MEK Type)
13	Last Coating Agent	LCS-10(NT) LCS-25(NT)	PU resin, Synthetic resin Polystyrene, Synthetic resin	Prevention Stain of Last, Improvement Releasing Property (Coat-Iron, Polyethylene, MEK Type)
14	No buffing Adhesive	NEWTEX-2	Synthetic latex	No buffing Adhesive for uncured Rubber (Watersoluble) No BTX
15	NR System Adhesive	SVH(W)	Denaturant of NR	No Buffing Adhesive for Molded sole (MEK) No BTX
16		MK-100MH(W)		PVC Leather
17	NR System Primer	MK-100S(NT)	Grafted CR	PU, PVC Leather, Soft Leather(No Buffing)
		SPR-130(NT)	Grafted NR	Polyester, Action Leather, PU, PVC Leather
	Tackifier	PAZ-30S(NT)	Thermosetting Resin	Catalyst for NR, CR System Adhesives

18	Waterbased PU Adhesive	A-11 A-4	Poly Urethane Emulsion	Waterbased PU adhesive
19	Waterbased PU Primer	MWP-01		Waterbased PU Primer for Leather, Fabric, Canvas
		MWP-02		
		MWP-03		
20	Waterbased Hardner	MDA-300		Waterbased Hardener
21	Waterbased Sticker-making adhesinve	MKW-6700T		Waterbased Sticker-making adhesive
22	Waterbased combining adhesive	MKW-681GS		Waterbased Combining adhesive
23	Waterbased CR adhesive	CMK-3000CR	CR Emulsion	Waterbased CR adhesive for Cup-Insole making

* B : Brush Type S : Spray Type D : Dipping Type F : Friction Type
SA : Coating Anti : Antioxidant W : White color Products H : Transparent products
NT : Free Toluene

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LATEX ADHESIVE (NEWTEX SERIES)

NEWTEX is adhesive by curing method(heat curing) for adhesive from NR LATEX and developed.
By this time, what is using solvent type adhesive natural rubber system at adhering tire, belt and cord or at making Canvas shoes in general bonding method, but we developed watersoluble adhesive of NEWTEX in a standpoint of environmental improvement in workshop, the cost saving by retrenchment of working process and harmless in the human-body.
The adhesive needed water-resisting and heat- resisting property can be reinforced by adding the hardener "WP-4(N)" in the NEWTEX Adhesive.

APPLICATION AND PROPERTIES

-. Adhesion of cotton and cured rubber

Properties Item	B-610H(W)	D-710H(W)	D-810H(W)
Appearance	Milky Viscous Liquid		
Main Component	Polymer of NR Latex and Synthetic Latex Derivative		
PH	10 - 11	10 - 11	10 - 11
Viscosity (CPS)	4,500 - 5,000	30 - 50	100 - 170
Solid content (%)	50 ± 1	50 ± 1	48 ± 1
Shelf Life	6 months (Avoid direct ray of Light and Freezing)		

Operation Example

Newtex adhesive :

Cotton ← D-710H(W) (80-100℃×8-10' Dry)
Uncured Rubber ← Shoemaking adhesive
(Diluted solution of natural rubber adhesive)

NR adhesive :

Cotton ← NR adhesive + RF5% ← NR adhesive
Uncured Rubber ← Shoemaking adhesive
(Diluted solution of natural rubber adhesive)

Nylon
Polyester ← B-610H(W) + 5%WP-4(N) (80-100℃×8-10 Dry)
(T.C)
uncured rubber ← (Diluted solution of natural rubber adhesive)

* B-610H(W) + 5%WP-4(N) : pot life (4hrs)

Adhesive test results

D I V I S I O N		B-610H(w)	B-610H(W) + 5%WP-4(N)
Dry	Maximum Minimum Average	C.S	C.S
Wet	Maximum Minimum Average	1.80 1.50 1.65	2.50 2.40 2.45 partial destroy of rubber

(kg/cm)

D I V I S I O N		NR ADHESIVE	D-710H(W)
Dry	Maximum Minimum Average	C.S	C.S
Wet	Maximum Minimum Average	1.80 1.50 1.65	2.00 2.00 2.00

* C.S : Can not Separate

Wet : Adhesive test after 24 hours deposit in water at normal temperature

(Condition of vulcanization : 125-130°C X 60' X 2.5-3.0kg/cm2)

Cotton must be soak in water well at throwing water, in condition that cotton doesn't deal with resin sizing and waterproof.
(Preliminary test method of cotton)

PACKING

- 100kgs, 200kgs net in DRUM

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LB-433H(W), LD-433H(W) (HEAT-VULCANIZING ADHESIVE)

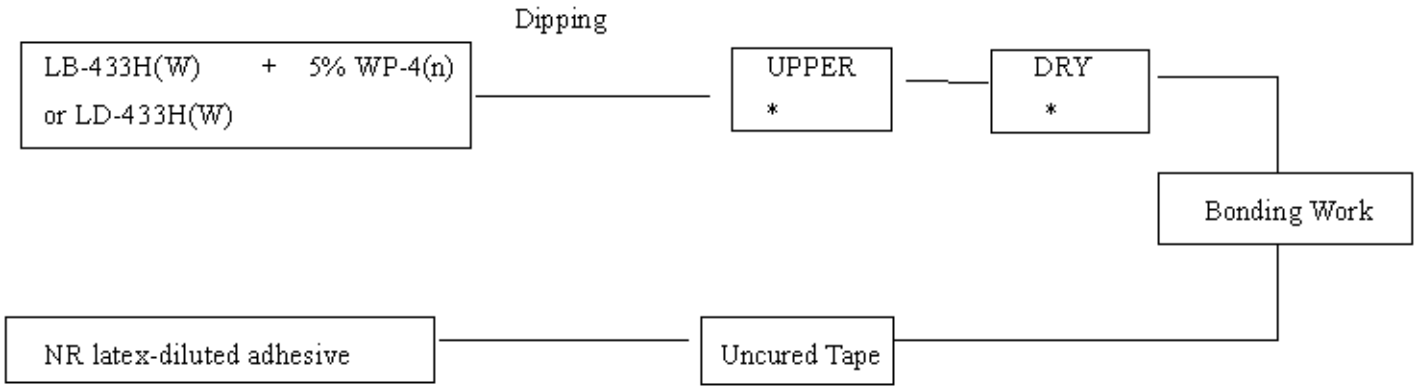
LB-433H(W) and LD-433H(W), heat-vulcanizing adhesive,are mainly composed of NR latex, employ to the hard-on-bonding upper materials, especially, Natural Leather, Syntheic Leather, Polyester, T.C., so that these adherends can get a good bonding strength.

PHYSICAL PROPERTIES

D I V I S I O N	LB-433H(W)	LD-433H(W)
Appearance	Milky viscous liquid	
Main Component	Polymer (NR latex + Synthetic latex)	Polymer (NR latex + Synthetic latex)
Viscosity(cps)	2,500-3,500	50-100
Solid Contents(%)	48 ± 1	52 ± 1
Self Life	6months (Avoid direct ray of Light and freezing)	

D : dipping type, B : brush type, H :transparent, W : white.

WORKING METHOD



* Dry condition : 80 - 100℃ X 8 - 10 min

*Upper : Natural Leather, Synthetic Leather , T.C., Polyester.

TEST RESULT(PEEL TEST)

D I V I S I O N		LB-433H(W)	LD-433H(W)
Dry	Maximum Minimum Average	C.S	C.S
Wet	Maximum	2.10	2.22
	Minimum	1.70	1.78
	Average	1.95	2.00

* C.S : Can not separate.

Wet type : peeling test 24hours after deposit in water at normal temp.

(Vulcanization : 125 - 130'C X 60 min X 2.5 - 3.0 kg/cm2)

PACKING

- 20kgs net in PE CAN
- 100kgs, 200kgs net in DRUM

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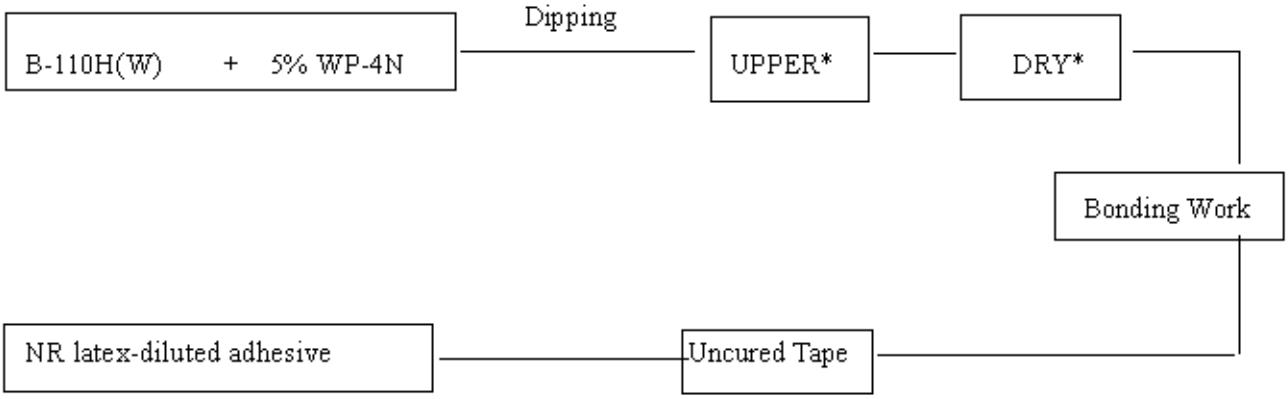
110H(W) (HEAT-VULCANIZING ADHESIVE)

B#110H(W), heat-vulcanizing adhesive,are mainly composed of NR latex, employ to the hard-on-bonding fabric materials, especially, Natural Leather, Synthetic Leather, Polyester,T.C., so that these adherends can get a good bonding strength.

PHYSICAL PROPERTIES

D I V I S I O N	B-110H(W)
Appearance	Milky viscous liquid
Main Component	Polymer (NR latex + synthetic latex)
Viscosity(cps)	2,500-3,500
Solid Contents(%)	50 ± 1
Self Life	6months (Avoid direct ray of Light,Freezing)

WORKING METHOD



* Dry condition : 80 - 100'C X 8 - 10 min

* Upper : Natural Leather, Synthetic Leather, T.C., Polyester.

TEST RESULT(PEEL TEST)

DIVISION		B-110H(W)
Dry	Maximum Minimum Average	C.S
Wet	Maximum Minimum Average	2.10 1.70 1.95

* C.S : Can not seperate.

Wet type : peeling test 24hours after deposit in water at normal temp.

(Vulcanization : 125 - 130℃ X 60 min X 2.5 - 3.0 kg/cm2)

PACKING

- 20kgs net in PE CAN
- 100kgs, 200kgs net in DRUM

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B-150F (Coating Agent)

PROPERTIES

DIVISION	B-150F
Appearance	Milky Viscous Liquid (watersoluble)
Main Component	Synthetic Latex Modifier
PH	9 - 11
Viscosity(CPS)	10,000 ± 500
Solid Content(%)	50 ± 1

APPLICATION

-. Coating Agent for friction(Reinforcement of adhesion and water-resistance) Shoes, Tire, Belt, Bag, Hose, Non-Woven fiber.

PACKING

- 100kgs, 200kgs net in DRUM

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T-200H, T-600H (Adhesive for drawing of Insole)

Adhesive for lasting of insole

Properties / Item	T-200H	T-600H
Appearance	Milky viscous liquid	
Main component	Polymer of NR Latex and Synthetic Latex	
PH	9 - 11	
Viscosity	27 - 30	55 - 60
Solid contents (%)	54 - 55	

- can use T-200H when adhesion is wrong and coated with resin on surface of texion

PACKING

- 20kgs net in PE can
- 100kgs, 200kgs net in DRUM

CO-90, CO-12603 (Tackifier)

Tackifier (Tack improver of Natural, Synthetic Latex)

Item / Properties	CO-90	CO-12603
Appearance	Yellowish liquid	Ivory color liquid
Main component	Synthetic Resin(Terpene)	Synthetic resin(Phenol)
PH	8 - 9	8 - 9
Viscosity(CPS)	150 - 300	150 - 300
Solid contents (%)	40	40

PACKING

- 20kgs net in PE can
- 100kgs, 200kgs net in DRUM

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VISCOMATE-20L (Thickening Agent)

Thickening agent (For Natural, Synthetic latex)

Item / Properties	VISCOMATE-20L
Appearance	Transparent viscous liquid
Main component	Sodium-polyacylate
PH	9 - 10
Viscosity(CPS)	Below 20

- Using milk casein, PVAC, and etc., in order to raise viscosity in natural and synthetic latex, is not good at long storage. Using Viscomate-20L can reduce working process, improve long stability, reinforce adhesion, and is effective antiprecipitation of inorganic material.

PACKING

- 100kgs, 200kgs net in DRUM

Antioxidants for Latex

Item / Properties	SP-EM	W-EM	BHT-EM
Appearance	White liquid		
Main component	Styrene phenol resin	Special wax	DBPC
PH	9 - 11	9 - 10	9 -10
Viscosity	150 - 400	150 - 400	150 - 400
Solid contents (%)	40	40	20

- BHT-EM : Nondiscoloration, Noncontamination for white products transparent products.
- SP-EM : Non influence of vulcanization, nondiscoloration of sunlight, heat-resisting.

PACKING

- 100kgs, 200kgs net in DRUM

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WP-4(N) (Hardener)

PROPERTIES

D I V I S I O N	WP-4(N)
Appearance	White liquid(watersoluble)
Main component	Isocyanate
PH	6 - 7
Solid content (%)	38 - 42
Caution	Shake before using

USE

- Hardener of NR Latex, watersoluble resin.
- Add 3-5% in NR Latex, watersoluble Resin and then water-resistance, heat-resistance and bonding power can be improved.
- Pot life : 3-4 hours.

PACKING

- 1kgs, 5kgs, 10kgs, 20kgs net in CAN

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MK-EM (Coating Agent)

PROPERTIES

D I V I S I O N	MK-EM
Appearance	Milky liquid(watersoluble)
Main component	Acryl resin
PH	6 - 7
Viscosity(CPS)	19,500 - 20,500
Solid content (%)	28 - 32
Storage stability	12 months

USE

- Coating agent for woven fiber
- Cotton
- Wood
- Texion
- Cork molding
- Binder for ink
- Coating agent for chemisheet

PACKING

- 20kgs net in CAN
- 50kgs net in DRUM

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MK-5 (Wetting Agent)

PROPERTIES

DIVISION	MK-5
Appearance	Colorless and transparent liquid (Watersoluble)
Main component	Denaturant of Organic Fatty Acid
PH	5 - 7
Solid content (%)	14 - 16
Viscosity (CPS)	47 - 53
Storage Stability	12 months

USE

- Organic, inorganic dispersing agent (watersoluble)
- Permeable agent for Leather
- Stabilizer for Natural rubber latex
- Softner for Textile.
- Scouring agent of woven fiber
- Softner for Chemisheet
- Softner for Natural Leather, Synthetic Leather.

PACKING

- 5kgs, 10kgs, 20kgs net in CAN
- 100kgs, 200kgs net in DRUM

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MK-2030 (Improver of Latex Reactivity)

PROPERTIES

D I V I S I O N	MK-2030
Appearance	Milky liquid (Watersoluble)
Main component	Acryl Modifier
PH	8 - 10
Solid content (%)	48 ± 1
Viscosity (CPS)	50 - 100
Storage Stability	12 months

APPLICATION

- Improvement of bonding power and physical properties by adding in natural and synthetic latex.
- Good bonding property and Elasticity when coating the cotton.
- Paper coating and Adhesive for pulp binder
- Adhesive for artificial flower and tricot.
- Heat-resisting Adhesive.
- Woven fiber, Chemisheet.

PACKING

- 10kgs, 20kgs, net in CAN
- 100kgs, 200kgs net in Drum

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MGR (Mark's Spraying Agent)

PROPERTIES

DIVISION	MGR
Appearance	Milky Viscous Liquid (watersoluble)
Main Component	Poly-vinyl-alcohol
PH	6 - 7
Viscosity(CPS)	1,800 - 2,200
Solid Content(%)	58 - 62

APPLICATION

- MGR ..... Rubber boots' marking, mold coating, tire painting.

* Easy to remove Stain and film made when the solvent type's paints and enamel are coating after MGR coating

PACKING

- 20kgs net in PE CAN
- 100kgs net in DRUM

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HA-70H(W) (Hot Melt Type)

PROPERTIES

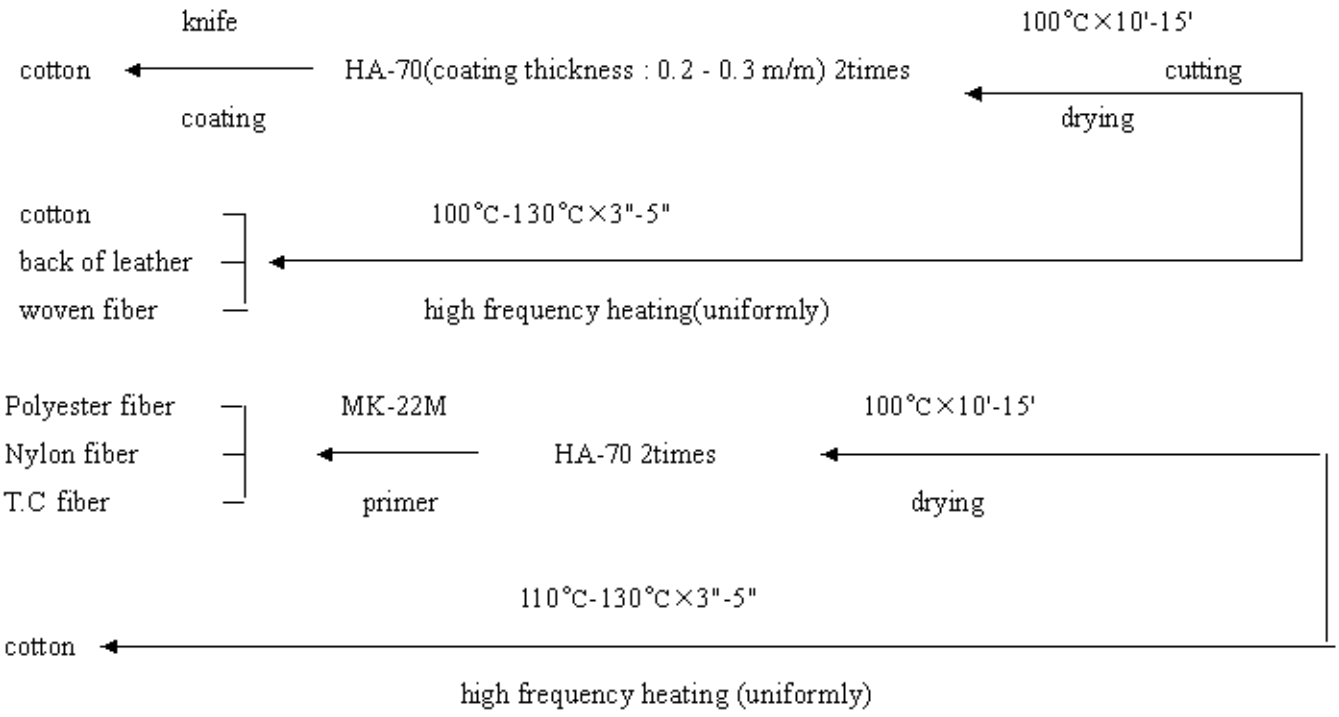
D I V I S I O N	HA-70H(W)
Appearance	Milky viscous liquid
Main component	Organic highly polymerized compound
Solid content (%)	43 ± 46
Viscosity (CPS)	40,000 - 40,500
Hardness	Soft
Storage Stability	12 months
Caution	Avoid a direct sunlight Galation in case of low-temperature(10℃)

APPLICATION

- Coating for back of clothes(soft and excellent elasticity)
- Coating for water-resistance (form film)
- Coating for back of back(clear cutting)
- Formation unevenness figure of mark
- High-frequency heat, heat-treatment (130℃×60')
  (Excellent heat-resistance, water-resistance, cold-resistance)
- After coating one side of cotton to cotton, cotton to leather, woven fiber to cotton can be high-frequency heating and easy working and saying working process.

-Adhesive for Hot melt (125℃ x 60' x 2.5 - 3.0 kg/㎠)

HOW TO USE



- Before treating Polyester, Nylon and T.C fiber with HA-70 without failing treat primer MK-22M and can get complete bonding power.
- HA-70H : Transparent product
- HA-70W : White product

PACKING

- 15kgs net in CAN
- 100kgs, 200jkgs net in DRUM.

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LCS-10, LCS-25 (Last Coating Agent)

LCS-10, LCS-25 has an excellent heat-resistance, water-resistance, weather-resistance, impact-resistance.
And is applied to coating agent for textile.

PROPERTIES

D I V I S I O N	LCS-10NT	LCS-25NT
Appearance	Colorless, transparent liquid	
Main component	Poly urethane resin, Synthetic resin	Polystyrene, Synthetic resin
Solid Content (%)	9 - 11	24 - 26
Viscosity(CPS, 25°C)	15 - 20	15 - 20
Storage stability	Caution against fire (Stable for a long time)	
Affinity	MEK EA Cyclohexanol	
Hardener	MRF	
Heat-Treatment(°C)	80 - 100 (20-30 minutes)	
Heat-Resistance(°C)	Below 250	Below 350
Pot life(hrs) (in adding 10% Hardener)	Below 72	

APPLICATION

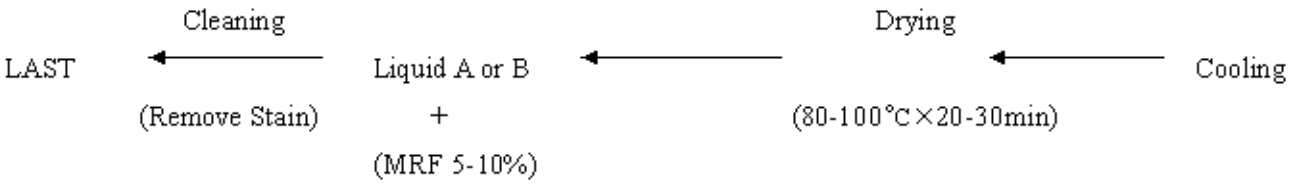
- Last coating ・effective to take off last.
  ・prevention of stain and last causticity.
- Aluminium Eyelet Coating, prevention of scale and causticity.
- Glass bottle coating.
- Reinforcing agent for metal-surface(Al, Sn, Cu+Sn).
- LCS-10NT is for low-heat treatment, LCS-25NT is for time-heat treatment.
- Apply to coat surface of polyethylene Last.

HOW TO USE

Example) Last coating method

(kg)

DIVISION	Liquid A	Liquid B
LCS-10NT	100	-
LCS-25NT	-	100
NCO(Hardener)(MRF)	5-10	5-10



PACKING

- 15kgs net in CAN
- 100kgs, 200kgs net in DRUM

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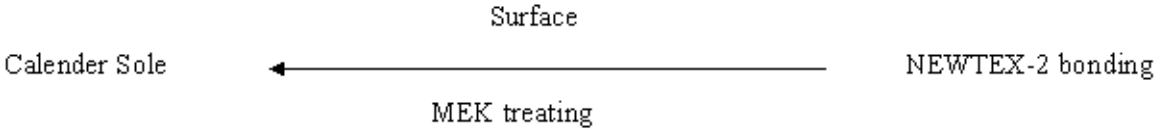
NEWTEX-2 (No Buffing Adhesive)

PROPERTIES

D I V I S I O N	NEWTEX - 2
Appearance	White emulsion
Main component	Grsfted Synthetic latex
PH	9 - 11
Solid content (%)	20 - 30
Viscosity (CPS)	50 - 60
Main Use	Adhesive(watersoluble)
Curing Discoloration	None

APPLICATION

- is suitable for non-polluted work for adhesive of cured and uncured rubber. (Shoes, belts, tiers, special rubbers, etc.).
- can obtain complete bonding state of uncured rubbers on tape to mold soles for shoes(Canvas, Rubber boots, etc.) by using NEWTEX-2 without buffing process.
- reduce electricity expenses and personnel expenses owing to omitting the buffing process.
- can get rid of the solvent pollution of solvent type adhesive and can solve the sanitary problem for works.
- can prevent poor bonding in case of being scorch uncured rubber (calender sole) in summer.



- can solve problems of shoes quality by keeping outsole from expansion and shrinkage owing to using no solvent when bonding uppers and tapes to calendered soles or milded soles.
  (has never problems of expansion or shrinkage because of watersoluble adhesive)
- can work easily because of good initial tackifying and cohesion.
- improves adhesion of rubberfiller sponges(RB scrap, rubber sponge) and improves bonding power.

PACKING

- 100kgs, 200kgs net in DRUM

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SVH, SVW (Special Adhesive)

PROPERTIES

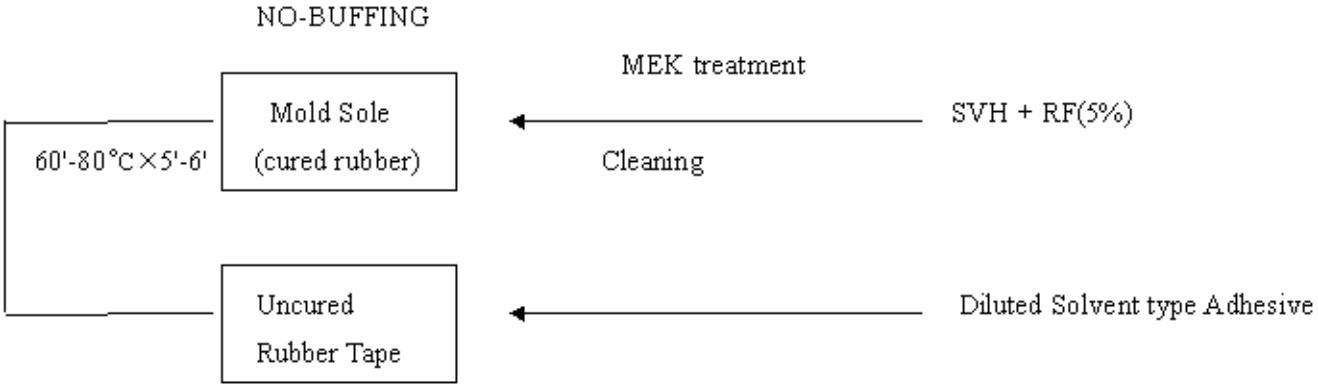
D I V I S I O N	SVH(W) ; NT
Appearance	Light yellow viscous liquid
Main component	Rubber and Tackifier
Ash contents(%)	20 ± 1
Viscosity (CPS)	6,000 - 6,500

APPLICATION AND CHARACTERRISTIC

Use of SVH is the same as that of Newtex-2 developed by our company. Newtex-2 is watersoluble, but SVH is solvent type adhesive, so it has a merit having short dry time.

- Can obtain complete bonding state of uncured rubber tape to mold sole without buffing process of sole surface.
- Can redude power cost and personnel expenses owing to omitting the buffing process, and can save the quality of Adhesive.
- Can work easily because of good initial and cohesion.

WORKING METHOD



PACKING

- 15kgs net in CAN

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MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MK-100MH(W) (NR SYSTEM ADHESIVE)

MK-100MH(W) is a modified rubber based adhesvie for Natural Leather,Synthetic Leather,Polyester,Nylon bonding to reduce the priming process on above materials by direct application to the surface of materials.

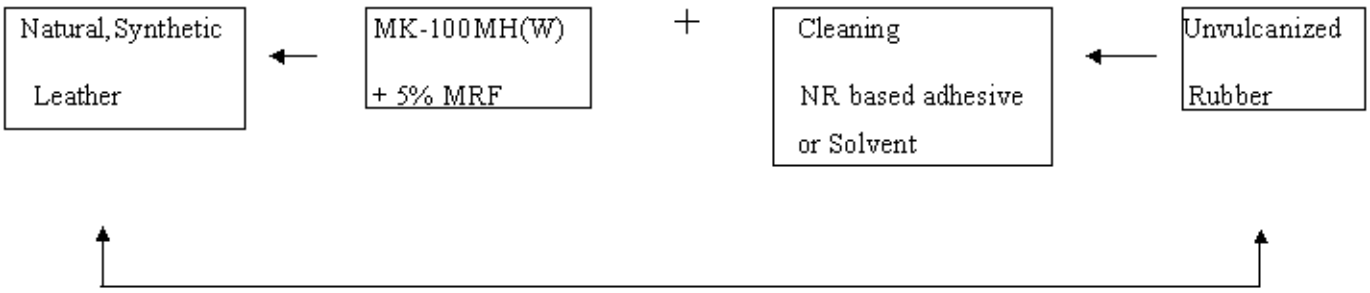
PROPERTIES

D I V I S I O N	MK-100MH(NT)	MK-100MW(NT)
Appearance	Light yellow viscous liquid	
Main component	Modified natural rubber	
Viscosity (CPS)	4,500 - 5,000	
Self Life	3months	

DIRECTION

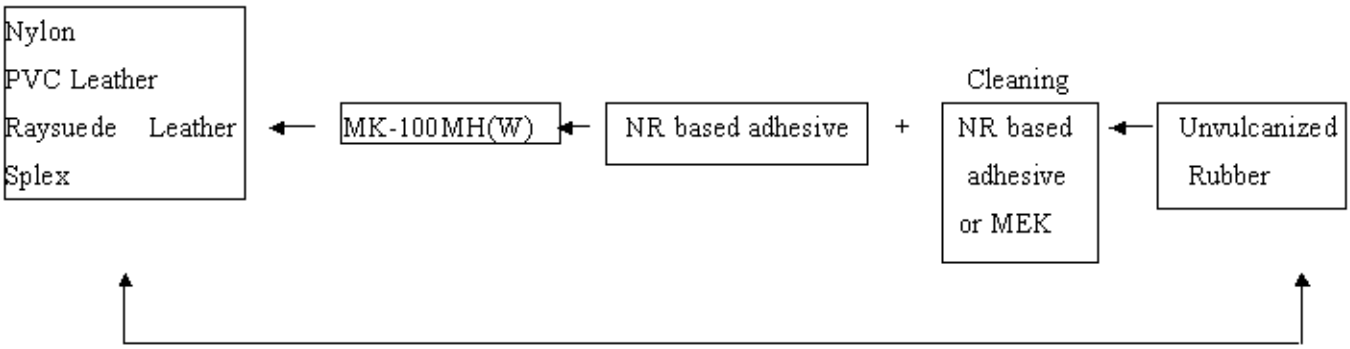
1)Use to Natural Leather, Synthetic Leather

- First, NR Leather, Synthetic Leather should be cleaned with MEK to remove stain.
- Apply MK-100MH(W), being mixed with hardener(MRF) at 3-5% by the weight on Natural,Synthetic Leather and dry it (Room temperature15'-30', 50°C X 10')
- Clean Unvulcanized Rubber with NR based adhesive or solvent and dry it.
- Adhere each together by comperssion and vulcanize the assembly



2)Use to Nylon, Raysuede LEATHER(Smelon), Splex

- After Applying mk-100mh(w) which mixed with hardener 3-5% by weight to above materials (room temperature 15-30', 50°C X 10'), apply again NR based adhesive. After Cleang and drying the other unvulcanized rubber with NR based adhesive or MEK and adhere each togather and then, vulcanize them.



CAUTION

- Keep adhesive away from open flame.
- Use only in well ventilated areas.
- Keep container tightly capped when not in use.

PACKING

- 15kgs net in CAN

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MK-100S(NT) (NR SYSTEM PRIMER)

MK-100S(NT) is a primer for Unvulcanized Rubber and Synthetic PU Leather.
It's characteristics are fast drying, and stainless after vulcanizing

PROPERTIES

DIVISION	MK-100S(NT)
Appearance	Yellowish transparent liquid
Main component	Grafted NR
Specific Gravity	0.875 ± 0.005
Drying Time	More than 5 min. at room temperature

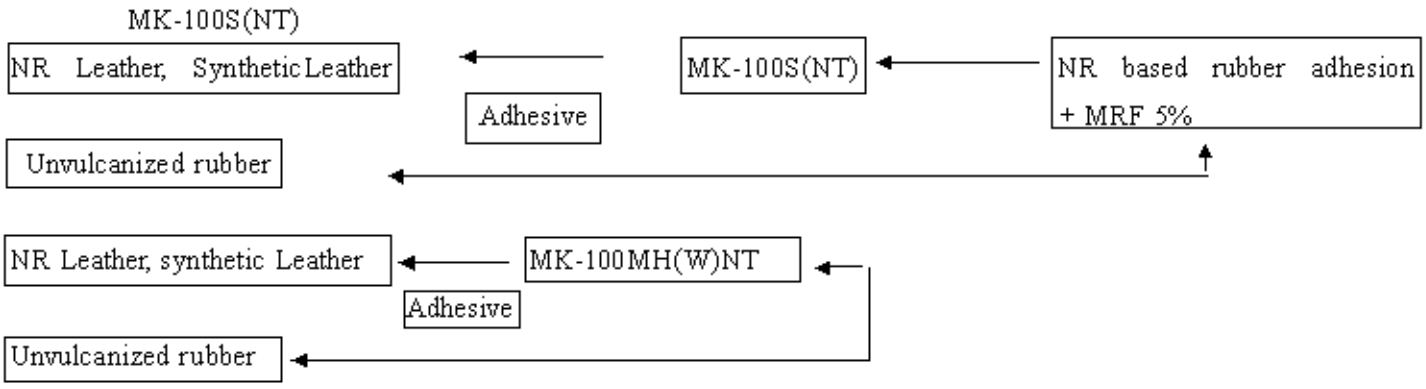
DIRECTION

- Priming :1. Apply a sufficient quantity of MK-100S(NT) to Synthetic PU Leather and dry(at least 5' atreal temperature),

2. Apply and dry NR(room temperature 10-30', 50℃ X 30') on it.

3. Dry after treating the other uncured rubber as NR or solvent

and adhere each togather and press and vulcanize(125-130℃ X 60' X 2.5-3.0 kg/㎠).



CAUTION

- Keep adhesive away from open flame
- Use only in well ventilated area.
- Keep container tightly capped when not in use.

PACKING

- 15kgs net in CAN

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

SPR-130(NT) (NR SYSTEM PRIMER), PAZ-30S(NT) (TACKIFIER)

SPR-130(NT), PAZ-30S(NT) is an organic compound.

As SPR-130(NT) is a polymer which penertration is strong and tunic formation is excellent, SPR-130(NT) has a characteristic derived properties of short fiber which burst of fiber, leather and vinyl is weak to properties effect of long fiber.

PAZ-30S(NT) is a thermosetting complex polymerized resin and has characteristic improved initial cohesion, heat-resistance and bonding power.

PROPERTIES

Item / Properties	SPR-130(NT)	PAZ-30S(NT)
Appearance	Yellowish liquid	Citrine viscous liquid
Main Component	Grafted NR	Thermosetting compound polymer resin
Solid Contents(%)	10-12	40-45
Specific Gravity	1.10	1.15
Main Solvent	MEK, mixed solvent	MEK,mixed solvent
Storage	Avoid a direct ray of light and heat	

APPLICATION

- SPR-130(NT)

: uses for reinforcing agent of hardener and bonding power of fibroid material for primer of buffing parts(adhesion parts) of leather at adhering split, smooth, exxion leather and general rubber.
(Vulcanizing, un-vulcanizing type)

- PAZ-30S(NT)

: uses for a kind of catalyst reinforced bonding power at adhering general rubber and fiber, leather for an additive of NR,CR adhesive.
(addition 5-10PHR to weight of NR,CR adhesive)

: uses in resin adhesive(EVA,RB,TPR) and synthetic, natural rubber adhesive.

USES

- Canvas(Exxion leather upper) + Rubber Tape(heating conveyer system)

Division	Leather	Rubber(unvalcanized)	Remarks
A	Buffing	Treatment shoemaking adhesive in unvulcanized rubber tape	Heating conveyor system
B	SPR-130NT + 3% RF coating (dry at 3-5')		
C	- NR,CR adhesive + 5% PAZ-30SNT + 3-5% MRF (dry at 60℃ × 6'-8') 5% PAZ-30SNT (dry at 60℃×6'-8')		
D	Adhering		
E	Compression		
F	Inspection		
G	Heating treatment 125℃ - 130℃ × -60' × 2.5-3kg/Cm2		

※ must treat parts of fibroid material at buffed leather.

- How to use at normal temperature drying work(J/C)

. The same usage and must control drying time.

- drying 2'-3' after coating SPR-130NT+3% MRF
- bases heating dry(30℃-35℃ ×10') in case of J/C after coating the first NR, CR adhesive + 5% PAZ-30SNT + 5% MRF
- bases heating dry(30℃-35℃ ×10') after coating the second NR, CR adhesive + 5% PAZ-30SNT

ATTENTION AT WORKING

- must treat up to parts of fibroid material at buffed leather.
- must be dried sufficiently after coating primer SPR-130NT.
- do not add PAZ-30SNT separately in workshop owing to adding PAZ-30SNT at making adhesive (NR,CR type) and can got mixing effect uniformly owing to being convenient pre-working.
- treat powder(Zn-St) throughout on the surface of unvulcanized rubber tape.
- uniform coating, drying, compression of adhesive can get best effect of bonding power.

PACKING

- 15kgs net in CAN

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MK-506CNT (NR SYSTEM PRIMER)

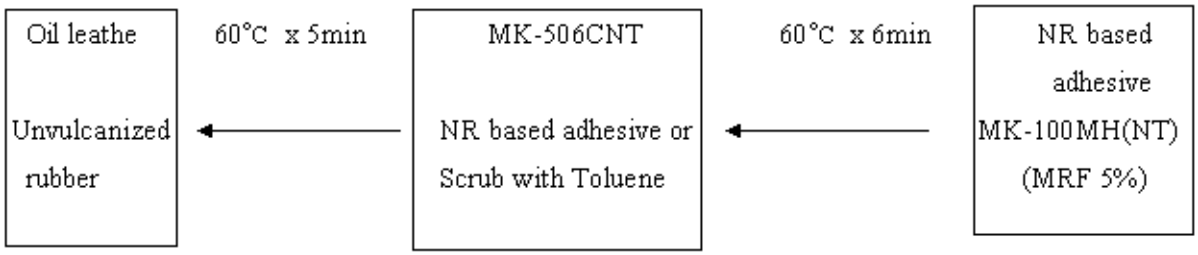
MK-506CNT is a primer for un-vulcanized rubber, leather and specially it has an excellent adhesion for oil leather.

PROPERTIES

- Main Component ..... Grafted NR
- Specific Gravity ..... 0.885 ± 0.005
- Appearance ..... Yellowish transparent liquid
- Storage Stability ..... 6 months

DIRECTION

- Apply natural rubber based adhesive to the primed oil leather.
- Apply natural rubber based adhesive to the un-vulcanized rubber or scrub the surface of it with MEK.



CAUTION

- Keep adhesive away from open flame
- Use only in well ventilated area.
- Keep container tightly capped when not in use.

PACKING

- 15kgs net in CAN

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MWP-A11 ... WATER-BASED PU ADHESIVE

1. MWP A-11

PROPERTIES

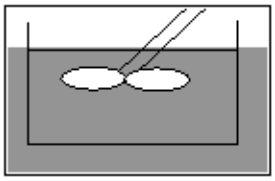
Division	MWP-A11
Appearance	Milky white liquid
Main componemt	Water-base polyurethane
Solid condensity(%)	50 ± 1%
Viscosity(summer,25℃)	25,000 ± 1,000
Viscosity(winter,25℃)	12,000 ± 1,000
Storage	6 months

CHARACTERRISTICS

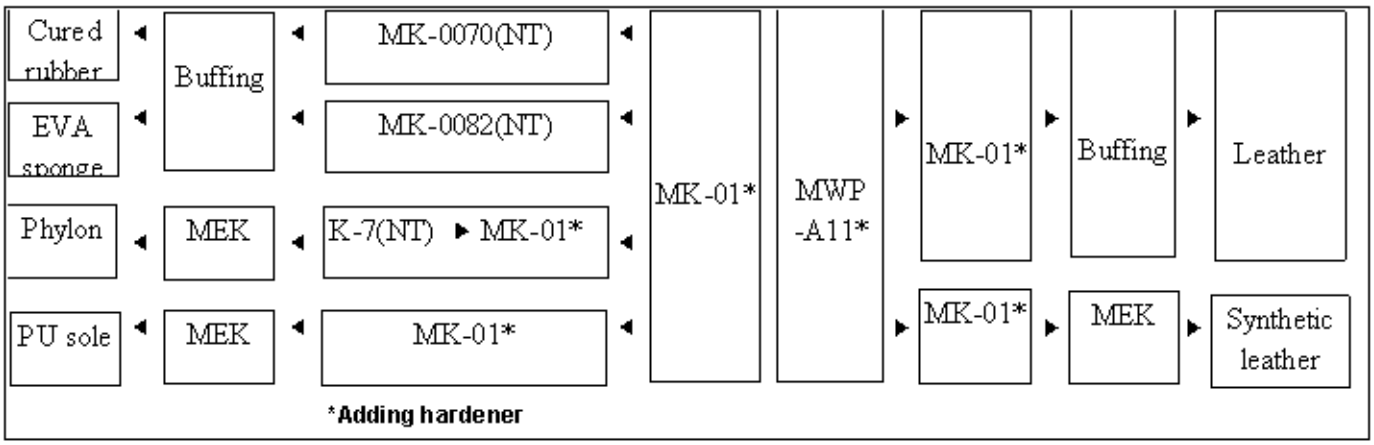
- MWP-A11 is a water-based polyurethane adhesive which is free-solvent.
- It has characteristics such as high solidty, cream type and long life.

HOW TO USE

The hardener(MDA-300) which being used with MWP-A11 could not react easily, so mix them enough well By using a electric-moter before use.



500RPM X 5' above
MWP-A11 : MDA-300
(100 : 5)



- The fitted(adequate) level of hardening needs 4-9 hour after mixing the hardener and time enough for hardening needs about 48 hours after mixed the hardener.

CAUTION

1) Dry the adhesive sufficiently because the condition of drying gives a deep effect for bonding strength.
2) You can see the state of drying by eyes because the color changes from milky white to transparency.
3) Drying only the surface would be happen when overcoated and it cause the defect of bonding.
4) Take care of freezing(store it between 5°C- 35°C)

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MWP-A4 ... WATER-BASED PU ADHESIVE

PROPERTIES

- Appearance ..... Milky liquid
- Main Component .....Water-base Polyurethane
- Viscosity(25°C, CPS) .....Below than 1,000
- Validity ..... 6 months
- Storage ..... Keep between 10°C - 35°C
- Miscibiliy in water ..... 38 ± 1%

CHARACTERRISTICS

- Excellent water, heat resistance and stickiness.
- Good for all kinds of shoe materials adhesion(Do not use high quality athletic shoe making, because of yellowing type).
- Might be use for industrial materials, mambrance etc.

HOW TO USE

- Materials : MDF/PVC Sheet (0.3 – 0.45mm)
- Apply Direction : Rolling apply to MDF.
  Spray to MDF by gun.
- Drying time : Until tack on the surface is disappeared.
- Bonding direction : Over Setting(80) Heating PVC sheet on MDF for 100 seconds
  Press for 100seconds by press machine.

CAUTION

- Please keeo cool place.
- Close up after using it.

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MK-01 (WATER BASED PRIMER FOR PU ADHESIVE)

PROPERTIES

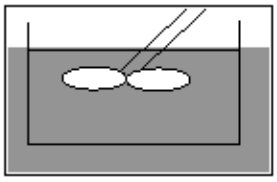
- Appearance ..... Milky liquid
- Main Component .....Water-base Polyurethane
- Viscosity(25℃, CPS) .....3,000 ± 4,000
- Validity ..... 6 months
- Storage ..... Keep between 10℃ - 35℃
- Miscibiliy in water ..... Unlimited
- Solid Content ..... 50 ± 1%

CHARACTERRISTICS

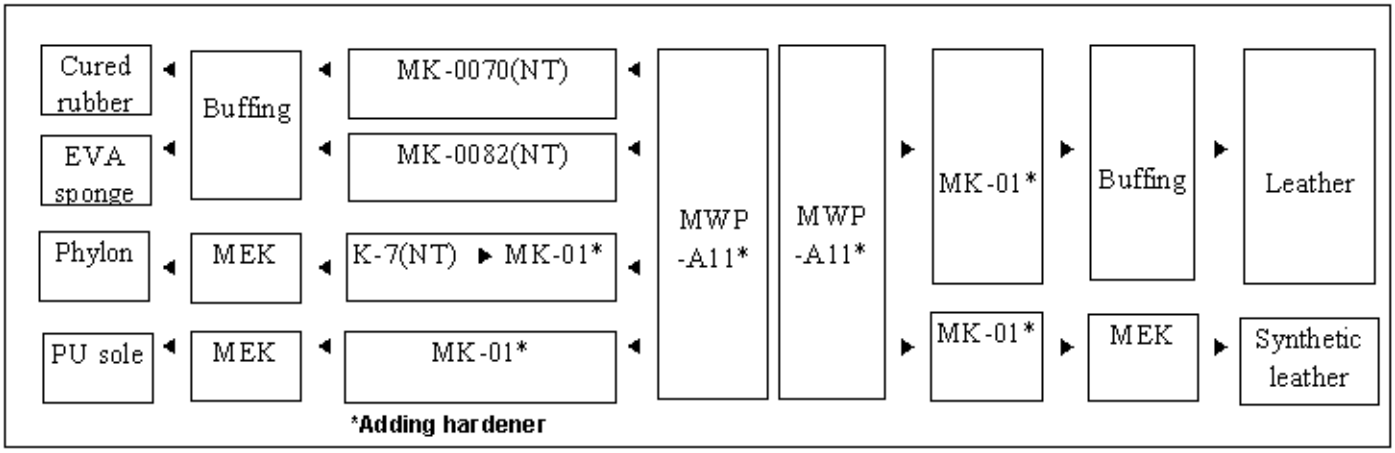
- Excellent water, heat resistance and stickiness.
- Non-yellowing type primer for synthetic and genuine leather.

HOW TO USE

- The hardener(MDA-300) which being used with MK-01 could not react in water easily, so mix then Enough well by using a electric-moter before use.



500RPM X 5' above
MWP-A11 : MDA-300
(100 : 5)



CAUTION

5) Dry the adhesive sufficiently because the condition of drying gives a deep effect for bonding strength.

6) You can see the state of drying by eyes because the color changes from milky white to transparency.

7) Drying only the surface would be happen when overcoated and it cause the defect of bonding.

8) Take care of freezing(store it between 5℃- 35℃)

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MKW-6700T (WATER BASED STICKER-MAKING TACKIFIER)

MKW-6700T is watersoluble tackifier,in which acrylic ester and methacrylic ester co-polymerized / emulsified, in a use for making sticker, it bears a resistance to heat and water as well as gives good workability.

PHYSICAL PROPERTIES

Division	MKW-6700T
Appearance	Milky viscous liquid
Ph	5 – 7
N.V.(%)	54 – 56
Viscosity(cps)	Approx. 8,000 ~ 20,000
Solubility in water	Watersoluble
Solvent	Water
Heat resistance	Good
Storage stability	6 months

** viscosity of the above can be controlled under the sticker-making conditions.

APPLICATION

- In heat resistant tackifying process ..... Auto-parts, Elextro-parts, Plastics, Aluminum foil, etc.
- All kinds of foam-materials requiring vulcanization ..... PU, EVA, CR, Polyethylene,etc.
- Textile(Fabrics) tackifying process ..... oxford, skylon, vinyl,etc.
- Double face tape-making process ..... paper film, opp, non-woven fabric, PVC film.

CHARACTERRISTICS

- Fast drying time, good cohesion keeps bonding strength of adherends to be good enough comparing with other products.
- Goods workability with combining M/C which should have 2 heat rolling process with fan and material tension device.
- Self-crosslinked type.

HOW TO USE

- Coating method ..... Knife coating.
- Drying time ..... 5-7 min X 100 – 110°C
- Tackified materials need to be matured for at least 24 hours.

CAUTION

- When other thinner mixed, stirring them enough to have stable quality.
- Leather MKW-6700T in PE can, put a little bit water into the can, dilute leftlover it and the dilution can be used as a thinner to save materials.
- Close cap of the can tightly when not in use.
- Do not mix thinner(water) too much.
- Store it at temperature 5°C or the above.

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MKW-681GS (WATER BASED COMBINING ADHESIVE)

MKW-681GS is water-soluble acrylic adhesive, in which acrylic ester and metha-acrylic ester are do-polymerized/emulsified. In a use for combining materials-nylon, cotton, oxford to PU foams, it offers a good adhesive penetration effect as well as excellent adhesion.

PHYSICAL PROPERTIES

Division	MKW-681GS
Appearance	Milky viscous liquid
Ph	5 – 7
N.V.(%)	50 – 52
Viscosity (cps)	Approx. 5,000 ~ 20,000
Solubility in water	Water-soluble
Solvent	Water
Storage stability	6 months

** viscosity of the above can be controlled under the sticker-making conditions.

CHARACTERRISTICS

- Fast drying time, good cohesion keeps bonding strength of adherends to be good enough comparing with other products.
- Non-inflammability.
- Goods workability with combining M/C which should have 2 heat rolling process with fan and material tension device.
- Self-cross-linked type.

HOW TO USE

- Coating method ..... Roll coating.
- Drying time ..... 25 meter/min. at 90 -105°C
  (press-rolling with heat is recommendable)

CAUTION

- When needed a little water to be mixed, stirring them enough to have stable quality.
- Leather MKW-681GS in PE can, put a little bit water into the can, dilute leftlover it and the dilution can be used as a thinner to save materials.
- Close cap of the can tightly when not in use.
- Do not mix thinner(water) too much.
- Store it at temperature 5°C or the above.

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

CMK-3000CR (WATER-BASED CR ADHESIVE FOR EVA CUP-INSOLE)

CMK-3000CR is water-based chloroprene adhesive for specially making EVA sponge cup-insole. It offers a good working conditions neither harmful in physical body, bad smell nor flammability. It also gives excellent heat and water resistance.

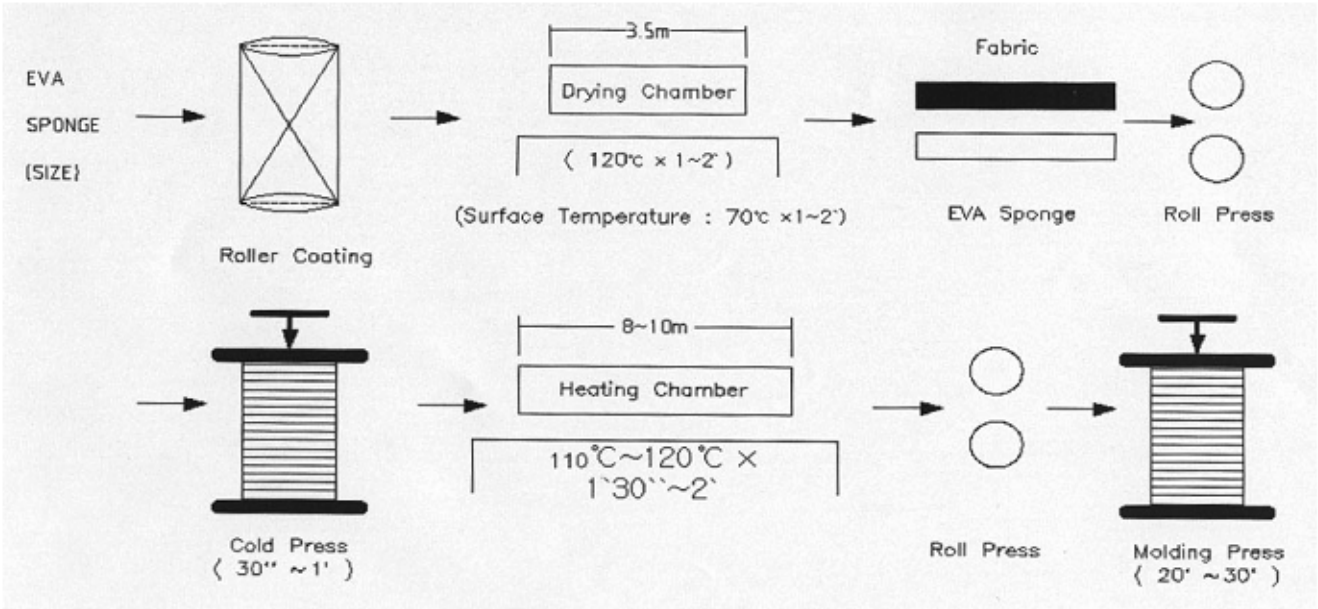
PHYSICAL PROPERTIES

- Appearance ..... Milky Emulsion
- Main components ..... chloroprene emulsion and co-polymer that has hydrophilic property in synthetic resins
- PH 7-7.5
- Viscosity (25℃,CPS) ..... 5,000 ~ 6,000
- Solid content(%) ..... 50 1 %
- Storage : 1) Keep them in 5℃ to 40℃ to prevent from freezing of them in subzero temperature.
  (There is no problem to store them together with water-based PU and Acryl adhesives).
  2) After using them, please close the cap of PE can tightly.
  (When you find top harden films of CMK-3000CR, you can use them after removing the films.)

USE & WORK METHOD

- The process of adhesion method is as follows;

1. EVA Cup-insole work process.



① CMK-3000CR (milky emulsion) : mixing time – more than 10 min.

② Combine Thickness : 0.3mm.

③ Dry time : surface temperature -70℃ X 1min.

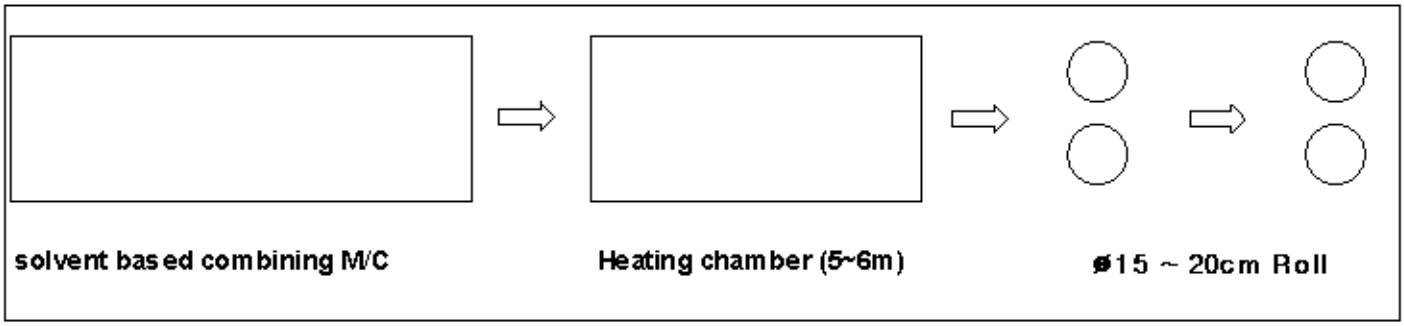
④ Press time : 20'.

⑤ Heating chamber : 120℃ X 1'30" ~ 2'.

⑥ Adhesion & Peel test : After 5 days at least.

2. General EVA Sheet combining with fabric work process

After modifying solvent based combining M/C, installing around 5 ~ 6m heating chamber and diameter 15 ~ 20cm double roll press as following diagram, CMK-3000CR can be combined EVA sheet and fabric which can't be made with water-based Acrylic adhesive.



☆ CMK-3000CR can also combine high density hardness PU foam, Non Woven fabric, Mesh, SQR mat, cotton woven fabric, Flat EVA sponge, etc. which can't be made with water-based acrylic combining adhesives.

S.T.R.O.N.G 370-82 SHINPYUNG-DONG SAHA-KU PUSAN KOREA

MYUNG KWANG CHEMICAL IND.CO.,LTD. TEL.82-51-206-7284 FAX.82-51-206-9048

MDA-300 (HARDEDER)

CHARACTERISTICS

- MDA-300 is a hardener for water-based urethane adhesive as self-emulsified type, it protects NCO of water-based resin it can be mixed well by electric-moter so ot can maximize the adhesive strength, also it is available to general solvent such as ACETONE, MEK, DMF, EA.

HOW TO USE

- Mix the hardener in a mixer machine good enough.
- Append it little by little when use it.
- It is more effective to mix if you blend it with solvent (MEK, EA, DMF).

STORAGE & HANDLING

- Store it temperature 3 ~50℃.
- Close cap of the can tightly when not in use.
- Take care of freezing.

CAUTION

- It is very harmful if you inhale or contact on skin, so keep closing up after using it at cool place.
- Wash it immediately when it is contacted on skin or eyes.