

## High Performance Polyurethane Adhesives, Finishes & Auxiliaries

### Sole Attachment & Dressing Systems

- PU Adhesives
- Hardeners, Primers & Cleaners
- Shoe Finishes & Auxiliaries



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An Italian Joint Venture  
With ICAP SIRA, Italy

**HARYANA**  
LEATHER CHEMICALS LTD

### ► Polyurethane (PU) Adhesives for Sole Attachment Systems

Presented below are technical details and specifications of Sole attachment system for single and two component solvent based PU system. This relies on 'Heat Activated Bonding' and can be used for bonding various materials like natural and synthetic upper materials with PVC, PUR, TPR, Composite Rubber and Thermoplastic soles etc.

Products	Solid	Peel Strength*	Nature / Application
HLC PU GPV/B	16±1%	6 kg/cm	Single component PU sole adhesive, bonds PU, PVC, Halogenated Rubber & TPR soles to leather / synthetic uppers. Exhibits good heat, moisture and oil resistance as well as low temperature flexibility, excellent flow and coverage properties. May be cross-linked with Vernetzer 500 FB, if necessary.
HLC PU 540	14±1%	5 kg/cm	Two component PU sole adhesive, bonds PU, PVC, Halogenated Rubber & TPR soles to leather / synthetic upper and should be heat reactivated after complete drying. Good flow with high coverage. Must be used with Vernetzer 500 FB.
HLC PU 547	13±1%	4.5 kg/cm	Two component PU sole adhesive, bonds PU, PVC, Leather soles to upper materials. Should be heat reactivated after complete drying. Must be used with Vernetzer 500 FB.

\*(as per SATRA AM 1)

### ► Auxiliaries for Sole Attachment Systems

### Hardeners, Primers & Auxiliaries

Various hardeners, primers & Auxiliaries to complement our sole attachment systems allow complete flexibility in handling various bonding substrates.

Products	Solid	Nature	Application
VERNETZER 500 FB	30±1%	Liquid	Cross linking agent based on Poly Isocyanate. Hardener for PU and SRB adhesives for two component systems. Improves heat, moisture and oil resistance as well as low temperature flexibility.
PRIMER PF	Powder	Free Flowing Powder	Halogenating compound and oxidizing primer in powder form for priming of Thermoplastic Rubber soles. After dissolving in component-B, it forms a halogenating solution for TPR soles. Mixture is fluorescent. Coated soles may be kept in air tight and dry conditions up to 6 weeks before bonding
PRIMER PF	Liquid	Special Solvent	Liquid mixing agent to dissolve Primer PF Powder
CLEANER 694	Liquid	Special Solvent	Cleaner / Thinning agent based on special solvents. Suitable for cleaning PVC, unrubberised PUR and rubber soles before bonding.
CLEANER 696	Liquid	Special Solvent	Special cleaner for cleaning EVA soles before bonding

► Aqueous and Solvent based Shoe Finishes, Auxiliaries, Dressings

<b>CREMA</b>	: Self Shine / Brushable creams.
<b>FINITO</b>	: Self Shine / Brushable Liquids for Glossy & Matt
<b>VERNICE</b>	: Self Shine / Brushable solvent dressings - Glossy & Matt
<b>REPPLAN</b>	: A system to rebuild and refresh touch & feel of Nubuck.
<b>AQUAPUL</b>	: Odour Free oil and darkening wax liquid for Pull Up.
<b>CERINA</b>	: Glossy and Abrasive wax bars for Natural & Brush - Off uppers.
<b>SOLEEDGE</b>	: For finishing the edges of soles.
<b>COLORANTE</b>	: For modifying the colours.
<b>SOFTINA</b>	: Softner for preventing cracking of leather finish.
<b>DETERGENTE</b>	: General purpose cleaning and softening of upper / soles.



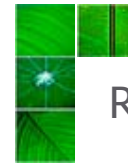
Products	Nature	Gloss	Solubility	Apply with	General Characteristics
CREMA-LG	Self Shine / Brushable Cream	Med.	Aqua	Sponge	Waxy finish that provides natural gloss and feel on brushing with abrasive / polish wax.
CREMA-HG	Self Shine / Brushable Cream	High	Aqua	Sponge	Self-Shine cream, provides high gloss, natural feel and smoothness.
CREMA-HGN	Self Shine / Brushable Cream	High	Aqua	Sponge	Self-Shine cream, provides high gloss, natural feel and smoothness.
FINITO SILKINA	Self Shine / Brushable Liquid	Med.	Aqua	Spray/Sponge	Imparts natural feel and silky shine, suitable for soft uppers like cow/buff softy & nappa.
FINITO LUCIDO	Self Shine / Brushable Liquid	High	Aqua	Spray/Sponge	Self-Shine finish of good gloss & feel may be brushed with abrasia / prima wax for better shine.
FINITO GLAZIA	Self Shine / Brushable Liquid	High	Aqua	Spray/Sponge	Self-Shine finish for C/G leather uppers, imparts good gloss, feel and uniformity to the shoes.
VERNICE OPECA	Self Shine / Brushable Liquid	Low	Solvent	Spray Gun	Low gloss finish, confers waxy feel / smoothness, may be added to Vernice Brillo for gloss regulation.
VERNICE LAM	Self Shine / Brushable Liquid	High	Solvent	Spray Gun	High gloss finish, especially formulated for laminated or patina uppers. May also be used for natural leather.
VERNICE BRILLO	Self Shine / Brushable Liquid	High	Solvent	Spray Gun	High gloss finish, for good feel and look, gloss may be adjusted with Opeca. Also suitable for two tone finish.
REPPLAN OL	Reviver for Nubuck / Suede	Low	Aqua	Spray Gun	Wet finish for Nubuck / Suede, improves oil stain resistance and feel, slightly darkens the leather colour.
REPPLAN RV	Reviver for Nubuck / Suede	Low	Aqua	Spray Gun	Reviver for Nubuck / Suede, brings out the original colour & improves the feel of leather/upper.
AQUAPUL CR	Oil for Pull-up / Crazy Finish	Low	Aqua	Spray/Sponge	Finish for oil pull up / Crazy Horse / Oily Nubuck, improves pull up effect, uniformity and depth of upper.
AQUAPUL GR	Oil for Pull-up / Crazy Finish	Low	Aqua	Sponge	Finish for oil pull up / Crazy Horse / Oily Nubuck, improves pull up effect, uniformity and depth of upper.
CRAZY OIL 30	Oil for Pull-up / Crazy Finish	Low	Aqua	Sponge	Finish for oil pull up / Crazy Horse / Oily Nubuck, improves pull up effect, uniformity and depth of upper.
CERINA ABRASIA	Hard Abrasive Wax Bar	Med.	-	Wheel	Solid bar of hard waxes, provides good filling and burnishing effects, exhibits good darkening power.
CERINA PRIMA	Polishing Wax Bar	High	-	Wheel	Solid wax bar for polishing the upper, imparts good shines, uniformity and smoothness on rubbing.
SOLEEDGE	For use on Sole Edge	Med.	Aqua	Sponge	For finishing the edges of the soles
COLORANTE	Light Fast Liquid Colours	-	-	Spray/Sponge	Range of light fast colours for water or solvent based finishes, may also be used for spray dyeing of leather.
SOFTINA	Softening Agent for Upper	-	Aqua	Sponge	Neutral softening compound, prevents gain / finish of upper from cracking. Generally applied on flesh side.
DETERGENTE	Cleaning Agent for Upper	-	Aqua	Sponge/Brush	Soft cleaner for uppers/shoes, does not leave holes, prepare uppers for further finishing coats.

**Haryana Leather Chemicals Ltd.** a joint venture company with ICAP-SIRA, Italy presents its updated & comprehensive range of Polyurethane Adhesives & Finishes for footwear industry.

Our range of Polyurethane (PU) adhesives, together with primers, hardeners and auxiliaries for various upper and sole materials, is an advanced sole attachment system. German technology from FORBO HELMITIN adopted by us, allows the shoe manufacturers to achieve the highest standards in bond strength.

Our Italian manufacturing standards enable us to offer a complete range of shoe finishes based on aqueous and solvent systems for sophisticated shoe uppers of natural, aniline and corrected grain leather and also for specialized uppers of Nubuck, Pull-Up and laminated leather. This range also comprises of high end sole and edge finishes. Our specialization in Acrylic and Polyurethane production allows us full flexibility in modifying the products to achieve the most optimum blends suitable for latest market trends.

With non-compromising commitment to service and unmistakable product quality, there is hardly any competition to our specialized product range. Our resolve to follow the ISO 9001:2000 quality system further makes our products automatically 'the first choice' of the users worldwide.



## Responsibility

## Reliability



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