

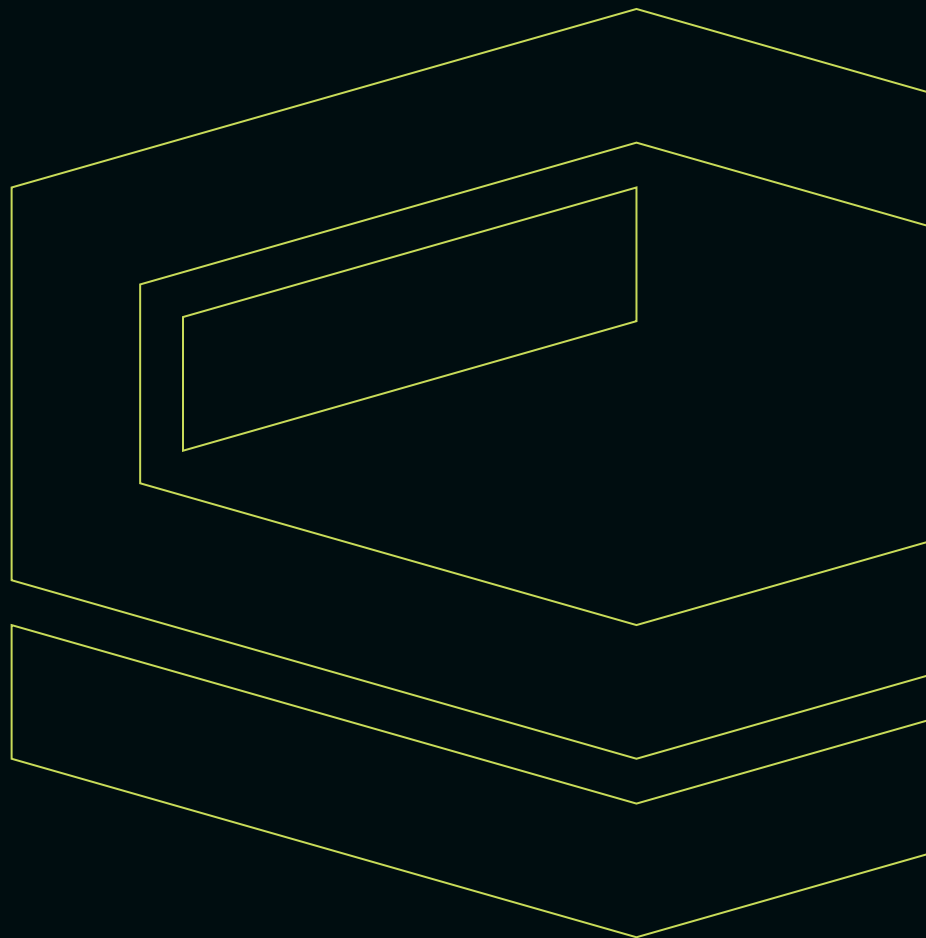


**Chimica
Lombarda**

Manufacturing
your chemical
innovation

ACQUEOUS POLYURETHANE DISPERSIONS

Innovating durability, naturally



LEATHER COATING

Finish your leather with the perfect balance of performance and sustainability with Chimica Lombarda polyurethane solutions

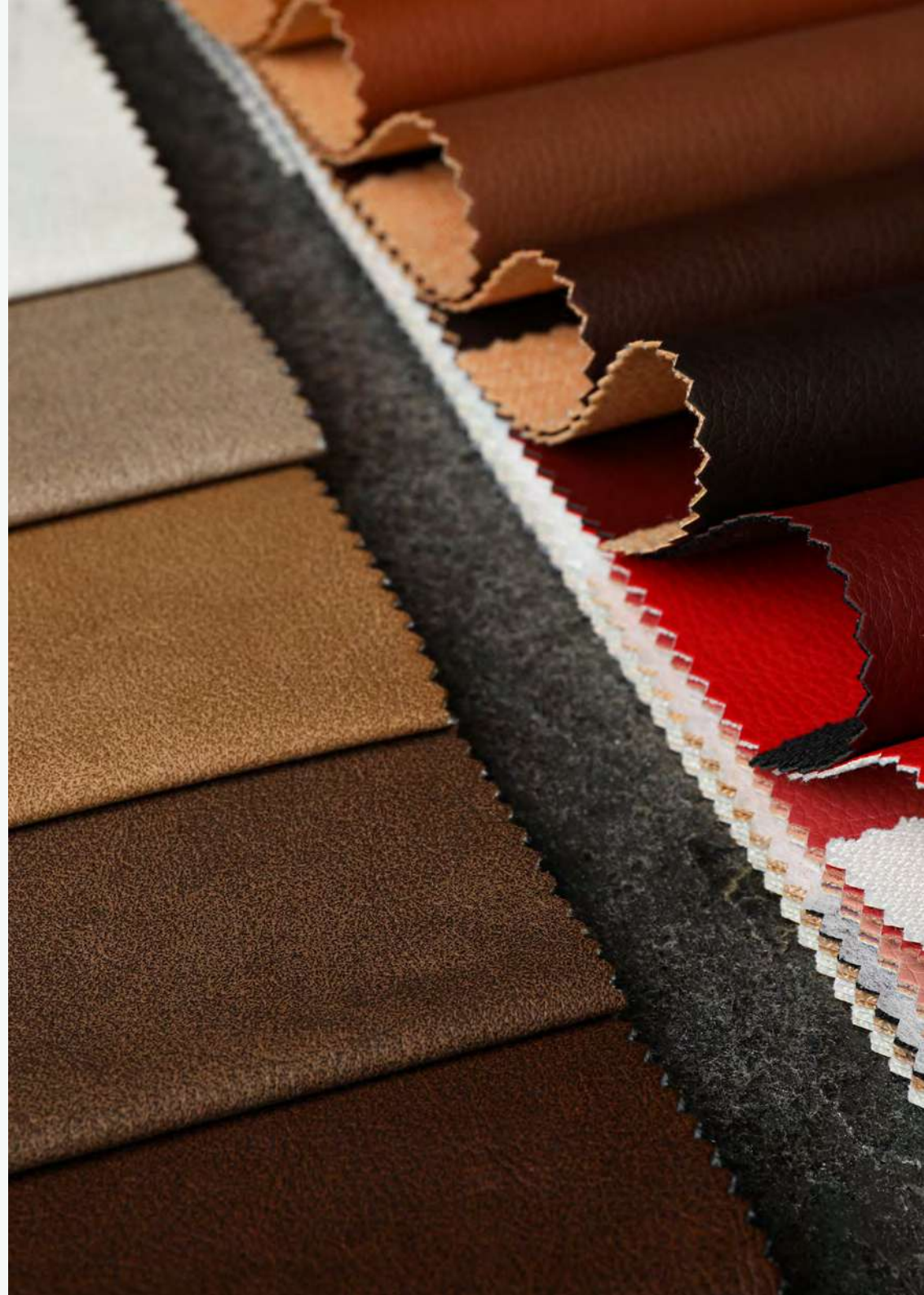
Our portfolio has the right product for your leather. Chimica Lombarda has a complete portfolio of leather finishing chemicals, which enables leather manufacturers to achieve a wide variety of leather finishes. We offer a variety of finishing solutions that support the production of multiple types of leather to change, improve, or develop its appearance or characteristics.

Our resins are high-performance polyurethane dispersions which can provide beneficial properties like fastness, waterspotting resistance, print retention, and high flexes.

Whether you need an adhesion promoter, a base coat, a dull base coat, cationics, or a beauty maker, we have the product to meet your protective and functional needs.

As an addition to coating formulations, Chimica Lombarda offers several possibilities to improve fastness in leather goods with a wide range of cross-linking agents.

Our crosslinkers improve fastness in leather goods, adding high-performance protection to leather primarily for base and top coats but also for sealer coats, for a wide range of applications in the automotive, shoes and leather goods, garments and upholstery.



PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	SPRAY	ROLL	BASE	TOP	ADHESIVES	GARMENT	UPHOLSTERY	SHOE UPPER & LEATHER GOODS	CAR UPHOLSTERY	FILM PROPERTIES
LC 45	Anionic	AL	PES	DMM	45	●		●	●			●			Transparent, flexible and fast film; Excellent covering and good printing features
LC 117	Anionic	AL	PE	SF	30	●	●		●		●	●	●		Soft touch - Silica free - High transparency with high matting effect
LC 175	Anionic	AL	PC	DMM	39	●	●		●		●		●		Medium soft and glossy film; Dry and wet flex resistance; Patent leather articles
LC 220	Anionic	AL	PES	DMM	22	●	●	●					●		Soft and transparent film; Good polishing and glazing features
LC 270	Anionic	AL	PE	DMM	35	●	●	●	●			●	●		Medium soft and glossy film; Improves sealing together with cold resistance - Anti hydrolysis features
LC 290	Anionic	AL	PES	DMM	26	●		●		●	●	●	●	●	Soft and transparent film; Good anchorage with water and dry milling resistance
LC 310	Non ionic	AL	PE	DMM	31	●		●		●	●				Very soft and transparent film - Adhesion enhancement without hardening
LC 336	Anionic	AL	PES	DMM	35	●			●				●		ISCC PLUS bio-based certified; Hard and glossy film; Excellent resistance to dry-wet rubbing, hydrolysis and oxidation

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	SPRAY	ROLL	BASE	TOP	ADHESIVES	GARMENT	UPHOLSTERY	SHOE UPPER & LEATHER GOODS	CAR UPHOLSTERY	FILM PROPERTIES
LC 370	Anionic	AL	PE	DMM	34	●	●		●				●	●	Medium hard and glossy. High performance, with good fastness properties
LC 390	Anionic	AL	PES	DMM	30	●	●	●		●	●	●	●		Very flexible and glossy film with outstanding water resistance
LC 410	Anionic	AL	PE	SF	40	●	●	●			●	●	●	●	Medium and transparent film; High hydrophobicity and good resistance to bending, abrasion and wet/dry frictions
LC 423	Anionic	AL	PES	DMM	32	●		●	●				●		Bio-based ISCC PLUS certified; Medium hard and glossy; Excellent resistance to dry-wet rubbing, hydrolysis and oxidation
LC 455	Anionic	AL	PE	DMM	35	●	●	●	●		●	●	●	●	Medium soft and transparent film - Excellent mechanical resistance and printing features
LC 460	Anionic	AL	PES	DMM	30	●			●				●		Hard and glossy film - High performance, with good fastness properties
LC 490	Anionic	AL	PE	BDG	30	●		●		●	●	●	●		Soft and transparent film - Stucco feature to close the grain - Good resistance to dry rubbing
LC 510	Anionic	AL	PE/PES	SF	40	●		●		●				●	Fast and transparent film -Good adhesion and covering features

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	SPRAY	ROLL	BASE	TOP	ADHESIVES	GARMENT	UPHOLSTERY	SHOE UPPER & LEATHER GOODS	CAR UPHOLSTERY	FILM PROPERTIES
LC 511	Anionic	AL	PE	DMM	35	●		●		●	●				Flexible and transparent film - Adhesion and sealing features
LC 530	Cationic	AL	PES	BDG	30	●		●		●	●		●		Flexible and transparent film - Good penetration and adhesion properties
LC 541	Anionic	AL	PE	DMM	30	●	●	●			●	●	●	●	Soft, elastic and transparent film
LC 548	Anionic	AL	PES	DMM	30	●			●				●		Medium hard and transparent film - UV resistance
LC 580	Non ionic	AL	PES	DMM	30	●	●	●	●		●		●		Very soft and transparent film - Adhesion enhancement with low stickiness
LC 615/2	Anionic	AL	PC	DMM	38	●			●				●	●	Very hard and glossy film - Excellent chemical and physical features
LC 660	Anionic	AL	PES	DMM	37	●	●	●	●			●	●		Medium and glossy film - It can be used as binder to formulate primer and top coat where physical and light resistance is required
LC 740	Anionic	AL	PE	DMM	32	●	●		●		●	●	●		Medium hard and glossy film

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	SPRAY	ROLL	BASE	TOP	ADHESIVES	GARMENT	UPHOLSTERY	SHOE UPPER & LEATHER GOODS	CAR UPHOLSTERY	FILM PROPERTIES
LC 800	Anionic	AL	PES	DMM	30	●			●				●	●	Medium hard and glossy film - Excellent mechanic strenght and wet and dry rubbing
LC 840	Anionic	AL	PES	DMM	30	●			●				●		Medium hard and glossy film
LC 860	Cationic	AL	PE	BDG	30	●		●		●	●				Very elastic and sticky film - It suitably works in pre-bottom layer of leathers with blind grain or excessive absorption - Also works as primer binder for leather with insufficient adhesion
LC UHT	Anionic	AR	PE	DMM	20	●		●		●	●	●	●		Adhesion promoter - Suitable for oil and waxy leathers

TEXTILE FINISHING

Innovative and sustainable specialties for textile performance

Chimica Lombarda is a world leader in manufacturing and supplying chemical specialty products for the textile industry. We aim to optimise production process and improve the quality and the duration of textiles, with an ongoing focus on sustainability. We accomplish this by developing and producing chemicals for use in processing textile and achieve your desired fabric property.

Our products excel in delivering high-performance finishes that meet the demands of modern fabrics and industrial applications. With eco-conscious and versatile formulations, we cater to both functional and decorative needs.



01 PU coatings

Chimica Lombarda's high quality PU coatings offer advanced solutions for textile coatings and printing inks, to design colorful textiles with remarkable qualities that includes superior elasticity, soft-touch layers, durability, water resistance, breathability and sustainability.

| PROPERTIES & BENEFITS

- High-performance materials provide superior durability, visual appeal, and more
- Customizable textile coatings offer excellent durability and hand feel
- Wide-ranging industry experience (sportswear, automotive, fashion, furniture)
- Eco-friendly, low-odor, low-VOC materials thanks to water-based PU binders

02 ACRALINK

Our ACRALINK blocked isocyanate crosslinkers help increase the mechanical properties, chemical resistance and sustainability of polyurethane based textile coatings. They are specifically formulated for two-component textile coating PU products.

ACRALINK enables the creation of a wide range of sustainable, high performance water-borne PU textile coating systems, without co-solvents. Typically they are used in the production of low VOC synthetic materials for garment fabrics, shoes, bags sports goods and upholstery. It is also used in coatings for technical textiles such as transportation belts and protective cloth.

| PROPERTIES & BENEFITS

- Enhances textile longevity and durability by increasing the mechanical properties, chemical resistance and sustainability of polyurethane based textile coatings
- Supports sustainable production goals with low in VOC and no co-solvents
- Improves print quality and design precision
- Enables multi-purpose applications across industries

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	PADDING	FOAM	COATING	ADHESIVES	PRINTING	FASHION FINISHING	FURNISHING	TECHNICAL FINISHING	SYNTHETIC LEATHER	FILM PROPERTIES
LC 270	Anionic	AL	PE	DMM	35			●			●	●	●		Soft and glossy film - High performance, with good fastness properties
LC 336	Anionic	AL	PES	DMM	35			●						●	ISCC PLUS bio-based certified; Hard and glossy film; Excellent resistance to dry-wet rubbing, hydrolysis and oxidation
LC 410	Anionic	AL	PE	SF	40		●	●						●	Medium and transparent film - High hydrophobicity and good resistance to bending, abrasion and wet/dry frictions
LC 440	Anionic	AL	PE	SF	40			●	●					●	Medium and transparent film - High hydrophobicity and good resistance to bending, abrasion and wet/dry frictions
LC 455	Anionic	AL	PE	DMM	35	●				●					Medium-soft and trasparent film with good resistance to water, solvent and chemical agents; High resistance to UV rays
LC 470	Anionic	AL	PE	DMM	38			●		●					Medium hard and high flexible film - Wrinkle-free
LC 530	Cationic	AL	PES	BDG	30			●			●				Flexible and transparent film - Good penetration and adhesion properties
LC 577	Anionic	AL	PC	DMM	25			●		●		●	●		Medium soft and glossy film - High performance, with good fastness properties

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	PADDING	FOAM	COATING	ADHESIVES	PRINTING	FASHION FINISHING	FURNISHING	TECHNICAL FINISHING	SYNTHETIC LEATHER	FILM PROPERTIES
LC 580	Non ionic	AL	PES	DMM	30			●		●			●	●	Very soft and transparent film - Adhesion enhancement with low stickiness
LC 703	Non ionic	AL	PES	DMM	35	●							●		Very soft and breathable PU - It suitably works to finish the lining of pored fabrics
LC 803	Non ionic	AL	PES	DMM	30			●					●		Very soft and breathable PU - It suitably works to finish the lining of pored fabrics
LC 860	Cationic	AL	PES	BDG	30			●		●	●				Very elastic and sticky film
LC 1693	Anionic	AL	PC	DMM	25	●		●		●	●		●	●	Very soft and elastic film - High performance, with good fastness properties

PAPER

Boosting paper with durable and eco-conscious solutions

Chimica Lombarda's polyurethane dispersions empower paper industries with a wide range of Polyurethanes in aqueous dispersion that are used to improve the performance of treated paper such as soiling resistance, mechanical resistance wet and dry, resistance to double folds, printability and water holdout. Particularly suitable for surface treatment in Luxury, Coated-Functional and Security papers. We develop customized surface treatments that deliver innovative solutions for papermakers.. Our waterborne formulations provide superior performance, blending durability and sustainability to meet the rigorous demands of the paper industry.



01 Luxury papers

Packaging is contributing to create first impression while buying and experiencing newly purchased products; haptic feelings are gamechangers in the luxury industry and fundamental for brand recognition.

We have a broad range of water based film formers suitable for providing luxurious appeal to paper based packaging solutions.

We can provide a complete boxset of tools for developing matt and soft touch coatings for the packaging industry.

OUR PRODUCT PORTFOLIO INCLUDES:

- A wide range of water born polyurethane dispersions that develop very low gloss film together with different soft touch feeling for delivering appealing and luxurious visual effects and tactile sensations
- A full set of gloss water base PU is available too with different level of softness/hardness and tactile feelings

02 Coated & Functional papers

A crucial task in modern papermaking is represented by the optimization of coating formulations in graphic and packaging paper. We provide solutions for enhancing productivity and quality of the final products with rheology modifiers, waxes and matting agents.

We develop customized surface treatments that deliver innovative solutions for papermakers.

Our available product line improves performance such as grease and water holdout, mechanical resistance, soiling resistance, printability, ink permeability, release and others.

We can provide solutions that join together performance and sustainability designing water based chemical surface treatments in order to meet regulatory issues and environmental constraints.

PROPERTIES & BENEFITS

- Excellent water resistance for wet applications.
- High adhesion and smooth surface finishes.
- Anti-scratch and anti-tear properties.
- Low emissions for sustainable production.
- Customizable gloss and texture levels.
- Enhances aesthetic appeal and surface protection.
- Ensures longevity for high-value paper products.
- Meets strict environmental and safety regulations.
- Reduces wear and tear in demanding applications.
- Expands design possibilities with versatile finishes.

03 Security papers

We are active in the development and manufacturing of water based solutions for banknote papermaking.

Thanks to our product portfolio it is possible to enhance remarkably durability and soil resistance of banknotes, providing the papermakers solutions for optimizing technical performance and maximizing sustainability.

In order to have an even higher sustainability and lower carbon footprint, we have developed water based polyurethane dispersions manufactured using renewable raw materials.

Our products portfolio is completed by NCO-free crosslinkers. Their reactivity with both hydroxyl and carboxylic groups enhances performances and maximize mechanical and chemical resistances without reducing film flexibility.

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	SPRAY	COATING	IMPREGNATION	SURFACE TREATMENT	PRINTABILITY	GLOSSY EFFECT	MATT EFFECT	SMOOTH EFFECT	FILM PROPERTIES
LC 117	Anionic	AL	PE	SF	30	●	●	●	●	●		●		Soft touch film - Silica free - High transparency with high matting effect
LC 270	Anionic	AL	PE	DMM	35	●	●		●	●	●		●	Medium soft and glossy film - High performance, with good fastness properties
LC 410	Anionic	AL	PE	SF	40	●	●		●	●				Medium and glossy film - High hydrophobicity and good resistance to bending and abrasion
LC 470	Anionic	AL	PE	DMM	35	●	●		●	●	●		●	Medium hard and high flexible film - Antisoil - Antifolding - Low water uptake
LC 580	Non ionic	AL	PES	DMM	30	●	●	●		●				Very soft and transparent film - Adhesion enhancement with low stickiness
LC 615/2	Anionic	AL	PC	DMM	38	●	●		●	●	●			Very hard and glossy film - High performance, with good fastness properties - Anti-soiling features
LC 880	Anionic	AL	PE	DMM	32	●	●		●		●		●	Very fast and transparent film for enhancing banknote durability and soiling resistance
LC 9002	Anionic	AL	PE	DMM	20	●	●		●	●		●		Soft and waxy touch film with high matting effect

INDUSTRIAL COATING

Pioneering durability in industrial coatings

Chimica Lombarda delivers cutting-edge polyurethane dispersions (NMP-NEP free, very low VOC and solvent-free grades) and cross-linking agents for many industrial coating applications.

Fields of applications:

- Parquet varnishes
- Wood furniture
- Metal coating
- Plastic coating
- PVC

Our products are designed to provide robust performance, vibrant aesthetics, and long-term reliability for interior and exterior exposures.



PROPERTIES & BENEFITS

- High mechanical and chemical resistance.
- Superior UV stability for outdoor durability.
- Ensures protection against harsh environmental factors.
- Excellent adhesion different substrates.
- Customizable for decorative and functional coatings.
- Enhances aesthetics with customizable finishes.
- Reduces maintenance costs with long-lasting performance.
- Supports eco-friendly building and construction practices.

Our products can be used neat or blended with the main water based resins or additives in the market and they can be easily formulated with pigments, matting agents, coalescing agents, fire retardants and the most common other auxiliaries used in industrial coating formulations.

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	SPRAY	ROLL	PARQUET VARNISHES	WOOD FURNITURE	METAL COATING	PLASTIC COATING	CONCRETE FLOORING	PVC	BASE COATS	FILM PROPERTIES
LC 117	Anionic	AL	PE	SF	30	●			●						Soft touch film - Silica free - High transparency with high matting effect
LC 270	Anionic	AL	PE	DMM	35	●	●	●						●	Medium soft and glossy film - High performance, with good fastness properties - Improve sealing together with flex and cold resistance
LC 370	Anionic	AL	PE	DMM	34							●			Medium hard and glossy; High performance, with good fastness properties
LC 260 UV	Anionic	AL	PES	DMM	35	●	●		●				●		UV-Crosslinking – Good scratch resistance
LC 425 UV	Anionic	AL	PES	DMM	35	●	●		●				●		UV-Crosslinking – Good scratch resistance

PRODUCT NAME	IONIC NATURE	ISOCYANATE TYPE	POLYOL TYPE	CO-SOLVENT TYPE	SOLID CONTENT %	SPRAY	ROLL	PARQUET VARNISHES	WOOD FURNITURE	METAL COATING	PLASTIC COATING	CONCRETE FLOORING	PVC	BASE COATS	FILM PROPERTIES
LC 660	Anionic	AL	PES	DMM	30	●				●	●				Hard and glossy film; It guarantes adhesion on different substates and it can be used as binder to formulate primer and topcoat applied to different materials
LC 615/2	Anionic	AL	PC	DMM	38	●			●			●			Hard and glossy film; It can be used as binder to formulate primer and top coat where high physical and chemical performance are required
LC 615/5	Anionic	AL	PC	NBP	30	●			●	●	●	●	●		Medium hard and glossy film; It can be used as binder for clear and pigmented coating
LC 902	Anionic	AL	PES	DMM	34	●			●						Medium hard and glossy film, It can be used as binder for clear and pigmented coating
LC 903	Anionic	AL	PES	DMM	34	●			●						Medium soft and glossy; It can be used as binder for clear and pigmented coating
LC 907	Anionic	AL	PES	DMM	36	●			●						Hard and glossy film - ISCC PLUS bio-based certified - Provides high hydrofobicity and flexibility; It can be used as binder for clear and pigmented coating

THE GIVES VALUES, PROVIDE GENERAL INFORMATION AND ARE NOT PART OF PRODUCT SPECIFICATION:

AL: Aliphatic

AR: Aromatic

PES: Polyester Diols

PE: Polyether Diols

PC: Polycarbonate Diols

BDG: Butyldiglycol

DMM: Dypropilene Glycol Dimethyl Ether

NBP: Normal Buthyl Pirrolidone

SF: Solvent-free



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