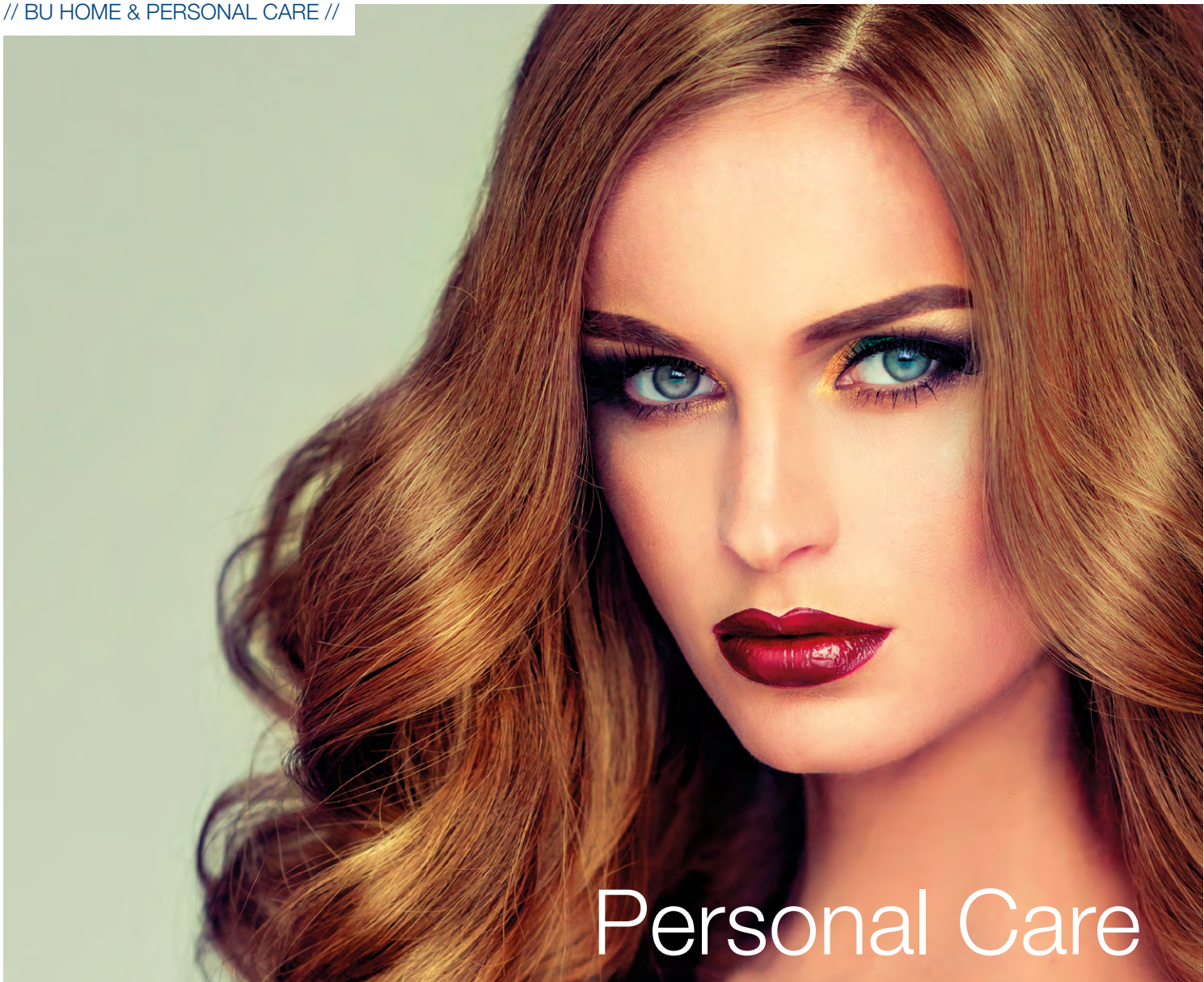


// BU HOME & PERSONAL CARE //



Personal Care

// BEAUTYSPHAERA S® //



lamberti
chemical specialties

Personal Care

Lamberti is a manufacturer of chemical specialties focused on customers' needs. Based on well established Technological Platforms (Natural and Synthetic Polymers and Oleochemicals) the Personal Care & Cosmetics portfolio offers traditional products together with patented innovative raw materials for Skin Care, Hair Care, Oral Care, Make Up and Toiletries. All new developments supported by our R&D laboratories are committed towards sustainability and environmentally friendly chemistry, in compliance with regulatory requirements. An international presence based on local Lamberti facilities and a consolidated distributors' network, guarantee a prompt service on global basis. To better focus on formulation design Lamberti has integrated Kalichem and Calista Labs who have a well recognized know-how in the world of cosmeceuticals and synergistic ingredients.

Lamberti Technologies for Personal Care

OLEOCHEMICALS

- Natural Surfactants
- Ethoxylated and Propoxylated Derivatives
- Esters

SYNTHETIC POLYMERS

- Acrylic Polymers
- Water-based polyurethanes

NATURAL POLYMERS

- Guar Gum Derivatives
- Hydrocolloids





Beautysphaera S[®]

Urethane beads technology enhancing the beauty experience

The quest for new textures is becoming more and more important for formulators worldwide and creation of different products with immediate and strongly perceived effects during the consumer experience is a big challenge. Sensorial modifiers are designed to deliver instantly visible benefits in the look and in the feel of the product, revealing natural and healthy looking skin.

Micro beads are widely used in skin care and color cosmetics as skin perfectors to create a soft focus effect, disguising the appearance of skin imperfections such as wrinkles and enlarged pores. Fine lines and wrinkles look significantly reduced and the skin appears immediately brighter, more radiant and flawless when urethane beads are introduced in the formulation. Beyond imperfections camouflage and optimization of soft focus, urethane beads such as Beautysphaera S[®] have several applications and provide enhanced aesthetics to the formulations delivering excellent slip, fluidity and overall skin feel, immediately enhancing the customer beauty experience.

Formulation inclusion of Beautysphaera S[®] is very simple and the beads can be easily dispersed in oil-in-water emulsions, water-in-oil emulsions and anhydrous systems.

Beautysphaera S[®] is a unique urethane powder suitable for skin care and make-up having strong de-tackifying properties, and offering several benefits such as matte appearance, sebum absorption and soft cushioning effect.

Oil based products, such as creams or lotions could look creamy and greasy because of the negative impact of gelyfying agents and waxes on their texture. Beautysphaera S[®] absorption

properties can reduce the oily sensation and avoid undesired shine breakthrough, leaving the skin perfectly smooth and shine free, while providing a silky touch combined with a rich feel.

The luxurious texture provided by Beautysphaera S[®] improves the application on the skin and could be a plus in sun care formulations, where an even sunscreen layer ensures a better protection from sunrays.

Also mineral and colored loose powders make the most out of the inclusion of Beautysphaera S[®], delivering better coverage, a more intense color and a more homogeneous application: the after feel results in a smooth and silky touch.

Foundations have to provide several simultaneous end-results such as long wear, soft focus and matt appearance. Beautysphaera S[®] enhances these properties while improving texture and coverage at the same time. These performances make Beautysphaera S[®] also suitable for BB creams, CC creams and air cushion foundations, special formulations where the compact contains a cushion that is saturated with liquid make-up and a puff that provides a more precise application of color and multiple benefits to the skin.

In the formulation of anhydrous hot pours such as lip sticks, Beautysphaera S[®] assures a smooth application resulting in a defined and intense color, and prevents the sweating of oils that could cause a poor coverage.

INCI name:

PEG-15/PPG-70 Glyceryl Ether/IPDI/DMPA Crosspolymer



Lamcos 130 – W/S Foundation

Phase	Ingredient name	%
Phase A		
1	Water, Aqua	54.00
2	Sodium Chloride	1.00
3	Propanediol	5.00
4	Phenoxyethanol, Caprylyl Glycol	0.80
Phase B		
1	Cetyl Diglyceryl Tris (Trimethylsiloxy) Silylethyl Dimethicone	3.00
2	Caprylic/Capric Triglyceride	5.00
3	Butylene Glycol Dicaprylate/Dicaprate	10.00
4	Polysilicone-15	3.00
5	Dimethicone	3.00
6	Propylene Glycol Dicaprylate/Dicaprate; Stearalkonium Hectorite; Propylene Carbonate	3.00
Phase C		
1	CI 77891, Triethoxycaprylylsilane	5.00
2	CI 77492, Triethoxycaprylylsilane	0.60
3	CI 77491, Triethoxycaprylylsilane	0.20
4	CI 77499, Triethoxycaprylylsilane	0.10
5	Titanium Dioxide, Silica, Dimethicone	3.00
6	Beautysphaera S®	3.00
Phase D		
1	Parfum	0.30

Manufacturing procedure:

1. Premix phase A at 45-50 °C.
2. Premix phase B at 45-50 °C.
3. Premix phase C and grind in a mill until homogenous.
4. Add phase C to phase B and stir until homogenous. Homogenize completed phase B/C.
5. Add phase A slowly and stepwise to phase B/C while stirring. Homogenize to reduce particle size.
6. Add phase D and cool down to room temperature while stirring.

General Characteristics:

Appearance: brown viscous emulsion
 Viscosity (Brookfield: TF; Speed 10 rpm): 25000 - 35000 mPas
 Centrifugation (4000 rpm, 15 min.): no separation

Lamcos 128 – Lip Stick

Phase	Ingredient name	%
Phase A		
1	Ricinus Communis Seed Oil	23.25
2	Hydrogenated Polydecene	20.00
3	Octyldodecanol	15.00
4	Butylene Glycol Dicaprylate/Dicaprate	15.00
5	Copernicia Cerifera Cera	2.00
6	Candelilla Cera	7.00
7	Ozokerite	2.25
8	Shorea Robusta Resin, Cera Alba	5.50
9	Tcopherol, Heliantus Annus Seed Oil	0.10
10	Ricinus Communis Seed Oil, CI 15850	1.40
11	Ricinus Communis Seed Oil, CI 77491, 45% Castor Oil dispersion	0.70
12	Ricinus Communis Seed Oil, CI 77491, 50% Castor Oil dispersion	1.50
Phase B		
1	Beautysphaera S®	5.00
2	CI 77891, Mica, Tin Oxide	1.00
Phase C		
1	Parfum	0.30

Manufacturing procedure: heat phase A up to 80 °C while stirring; cool down to 70 °C and add premix of phase B to phase A. Remove remaining air by using a weak vacuum or keep temperature for 15 min at 70 °C while stirring gently. Add phase C while stitting and pour into moulds between 65-70 °C. Freeze split-mould for about 30 min, Allow to temper to room-temperature and fill sticks in the container.

General Characteristics:

Appearance: red-orange shiny solid stick





Lamcos 129 – Loose Rouge Powder

Phase	Ingredient name	%
Phase A		
1	Talc	49.50
2	Magnesium Stearate	2.50
3	CI 77891	10.00
4	CI 77491	10.00
5	CI 77891, Mica, Tin Oxide	15.00
6	Beautysphaera S®	10.00
Phase B		
1	Capryl Glycol, Glyceryl Caprylate, Glycerin, Phenylpropanol, Aqua	0.50
2	Butylene Glycol Dicaprylate/Dicaprate	2.50

Manufacturing procedure: premix phase A and grind until homogeneous; add premix of phase B drop wise while stirring, grind until uniform.

General Characteristics:

Appearance: red powder



Lamcos 132 – Silky touch body lotion

Phase	Ingredient name	%
Phase A		
1	Water, Aqua	69.85
2	Propanediol	2.50
3	Cetearyl Glucoside; Sorbitan Oliviate	5.00
Phase B		
1	Beautysphaera S®	3.00
Phase C		
1	Viscolam AT 100 EF	0.75
Phase D		
1	Cetyl Alcohol	1.00
2	Butylene Glycol Dicaprylate/Dicaprate	10.00
3	Triheptanoin	6.00
4	Dimethicone	0.50
5	Tocopherol; Helianthus Annuus Seed Oil	0.20
Phase E		
1	Phenoxyethanol; Caprylyl Glycol	0.80
2	Parfum	0.30

Manufacturing procedure:

1. Heat phase A up to 70 °C. Allow A3 to hydrate while stirring for approx. 10 min.
2. Dissolve phase B and C in given order.
3. Heat phase D up to 60 °C.
4. Emulsify phase D into phase A/B/C while stirring. Homogenize for 1-2 min. using an Ultra-Turrax.
5. Cool down to room temperature under moderate stirring. Add phase E below 40.

General Characteristics:

Appearance: white emulsion
 pH-value: 5,5 - 6,5
 Viscosity (Brookfield: TF; Speed 10 rpm): 50000 - 100000 mPas
 Centrifugation (4.000 rpm, 15 min.): no separation

Lamberti in the World

EUROPE

Italy

Gallarate
(Headquarters &
Commercial Offices)

Albizzate
(Main production facilities,
Technological research center)

Fiorano Modenese
Nerviano
Rezzato
Trissino
Viguzzolo
Zanica

France

Liergues

Germany

Bammental

Poland

Tomaszów Mazowiecki

Russia

Moscow

Spain

Onda (Castellón)

Turkey

Istanbul

AFRICA

South Africa

Westmead

ASIA

China

Hong Kong
Shanghai

India

Rajkot

Indonesia

Bekasi

South Korea

Gunpo
Seoul

United Arab Emirates

Dubai

AMERICAS

Brazil

Nova Odessa

Canada

Red Deer

Mexico

Santa Catarina (Monterrey)

United States

Chattanooga
Conroe
Conshohocken
Hungerford
Waukegan

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