



Lamberti holistic approach on food contact paper challenge

Company Profile



Highlights. *Overall*

754 M€

Net group sales 2022

1,371

Total number of employees
worldwide 2022

35

Total number of operations 2022



Highlights. *Science 2022*

493

Number of active patents

14%

Employees in R&D

>90%

Eco-friendly products classified
not dangerous for the environment

30+

R&D laboratories



Our Global Presence



Synthesis

R&D Center

Formulation Unit

Commercial Office



Our technological expertise

Natural polymers,
carboxymethyl cellulose
and hydrocolloids

**Waterborne
synthetic polymers**
(acrylic and polyurethanes)

**Oleochemicals
and fatty derivatives**

Polymer beads
(acrylic and polyurethanes)

Hydroxyapatite

Active ingredients
for cosmeceuticals
(or cosmeceutical products)



Our expertise in paper

Coating colour

Rheology modifiers, plasticizers,
defoaming agents, surfactants

Surface treatment

Barrier coating resins, inherent matt
PUDs, primers for digital, binders for
security paper

Wet-end

Natural polymers, defoaming agents

Food Contact Barrier Coating



Focus on barrier coating solutions



Water, oil
and grease



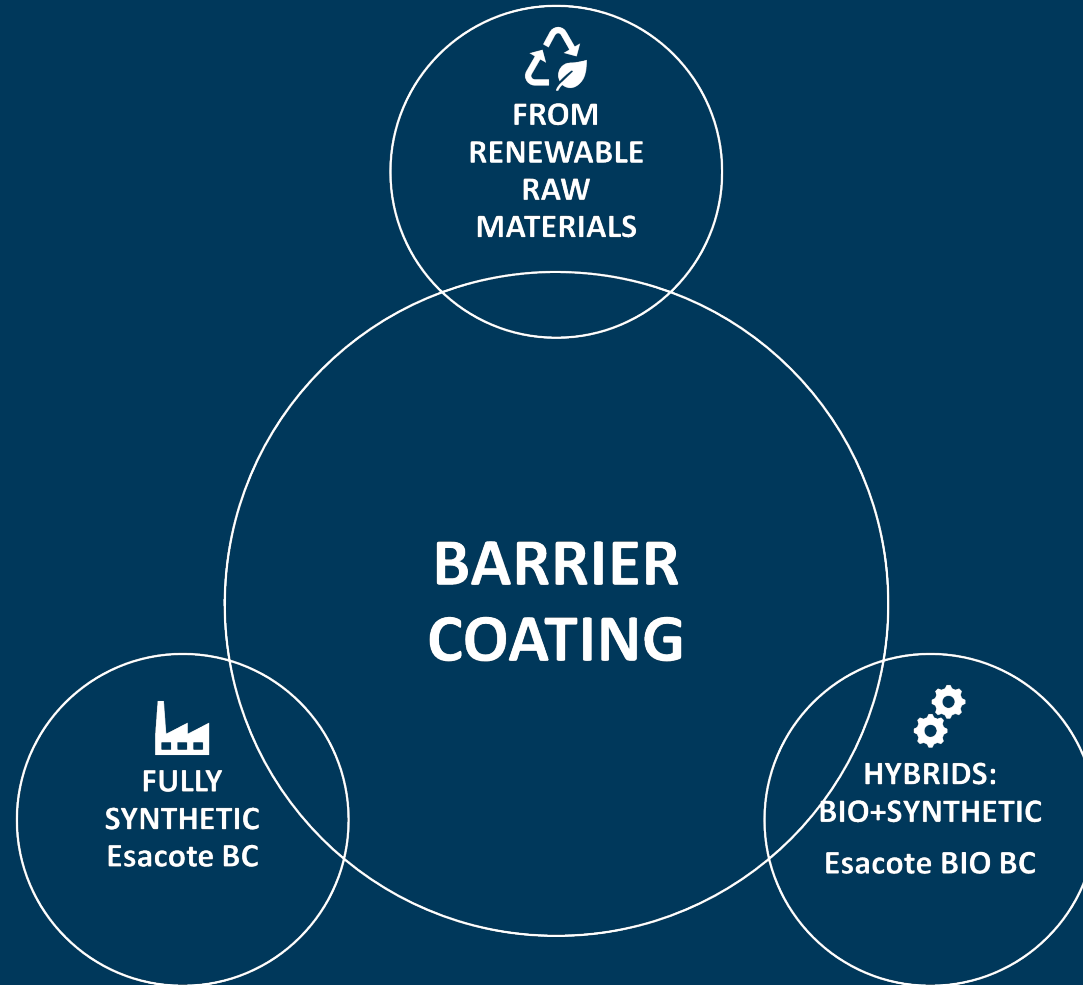
WVTR
MOSH/MOHA



O₂, Aroma



Technologies for barriers





Barrier coating solutions



Oil & Grease

Wide range of products from synthetic to natural polymers, suitable for different application equipments. High stability with fillers.



Water & Water Vapour

Binders and additives with excellent heat sealability and compatibility with hot melt adhesives



Mineral Oil

Hybrids or natural based polymers for barrier to MOSH and MOAH



Product for OGR

All product are repulpable





Products for OGR

Applications

Suitable to be applied with both on-line or off-line coaters
Gravure and Flexo equipment

ESACOTE BC 57

- Good oil repellency
- Very Good heat-sealability
- Medium blocking tendency

ESACOTE BC 46 HP

- Very good oil repellency
- Good heat-sealability
- Low blocking tendency



Products for OGR

Applications

Suitable to be applied with both on-line or off-line coaters
Gravure and Flexo equipment

ESACOTE BIO BC 25

- Outstanding oil repellency
- 25% of BIO Content
- Low blocking tendency
- Sealable

ESACOTE BIO BC 50

- Very good oil repellency
- 50% of BIO Content
- Low blocking tendency



Products for OGR

Applications

Suitable to be applied with on-line
coaters

ESACOTE NT

- Good oil repellency
- 65% of BIO Content
- Low blocking tendency
- Low molecular weight liquid CMC

CARBOCEL DP 100 N

- Good oil repellency
- 80% of BIO Content



Product for Water & Water Vapour

All product are repulpable





Products for Water & Water Vapour

Applications

Suitable to be applied with both on-line or off-line coaters
Gravure and Flexo equipment

ESACOTE BC 57

- Good water repellency
- Very Good heat-sealability
- Medium blocking tendency

ESACOTE LP 11

- Outstanding oil repellency
- Good heat-sealability
- Mid-Low blocking tendency
- Good moisture barrier

ESACOTE SF 82

- Good water repellency
- Good heat-sealability
- Low blocking tendency



Product for Mineral Oil

All product are repulpable





Products for Mineral Oil

Applications

Suitable to be applied with both on-line or off-line coaters

Gravure and Flexo equipment

ESACOTE BIO BC 25

- Mild/low MOSH/MOAH barrier
- 25% of BIO Content
- Low blocking tendency
- Sealable

ESACOTE BIO BC 50

- Very good MOSH/MOAH barrier
- 50% of BIO Content
- Low blocking tendency



Products for Mineral Oil

Applications

Suitable to be applied with on-line
coaters

ESACOTE NT

- Mild MOSH/MOAH barrier
- 65% of BIO Content
- Low blocking tendency

Fully natural sustainable solution

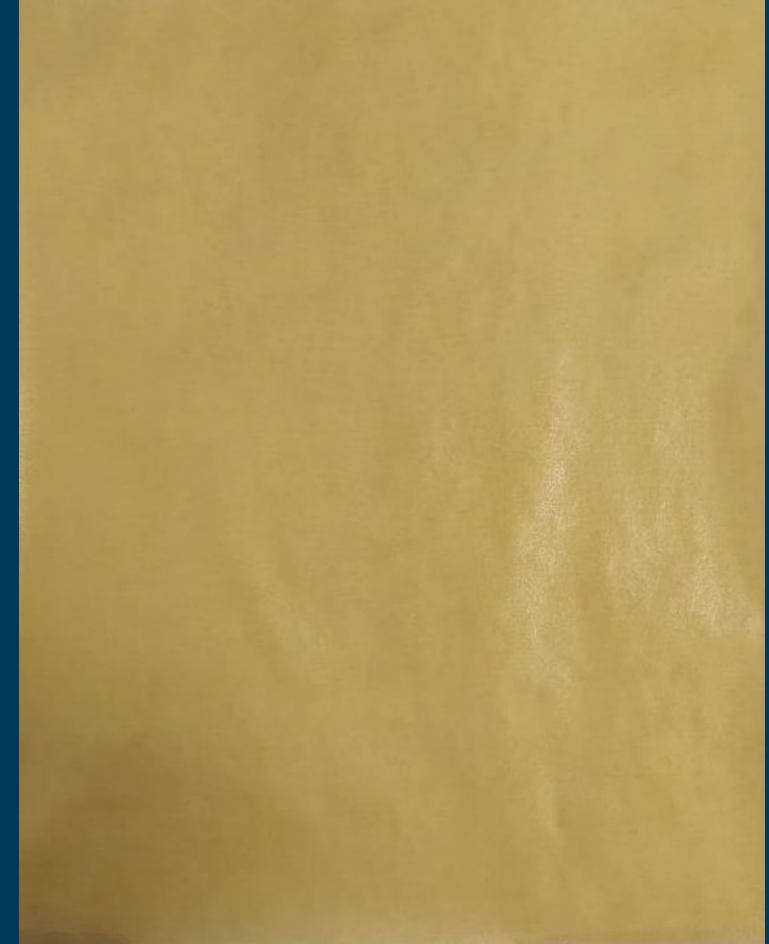


Esacote Bio[®] BC 100

Tomato's Skin Barrier Coatings

Lamberti patented an innovative solution to convert extracted cutin in Esacote[®] BIO BC 100, a waterbased fluid easy to be applied for all flexible packaging materials.

- Fully natural & plastic free
- from by-product of food industry
- 100% biobased carbon



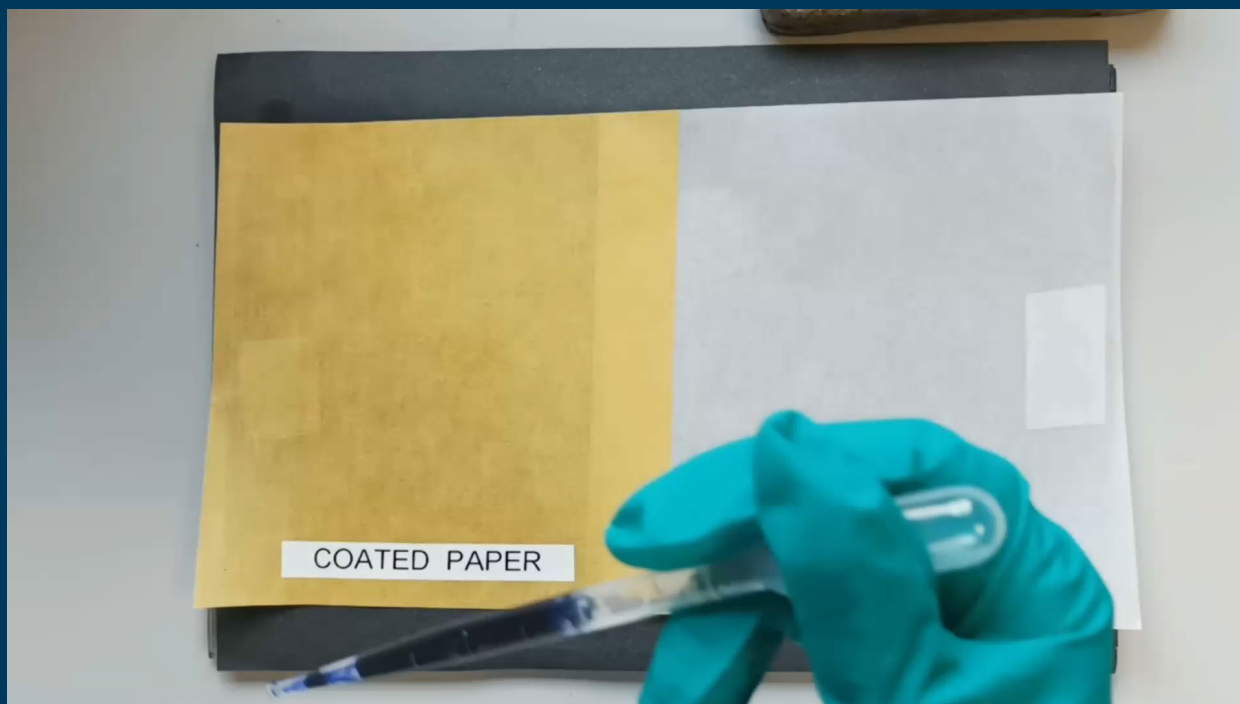
Beta Analytic
TESTING LABORATORY



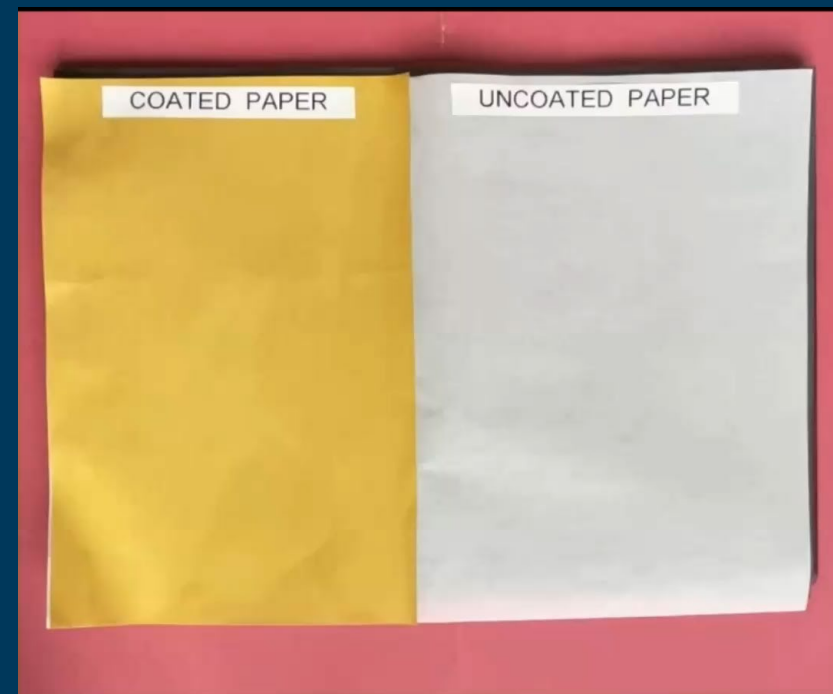
Esacote Bio[®] BC 100

Applied Performances

Water Hold Out

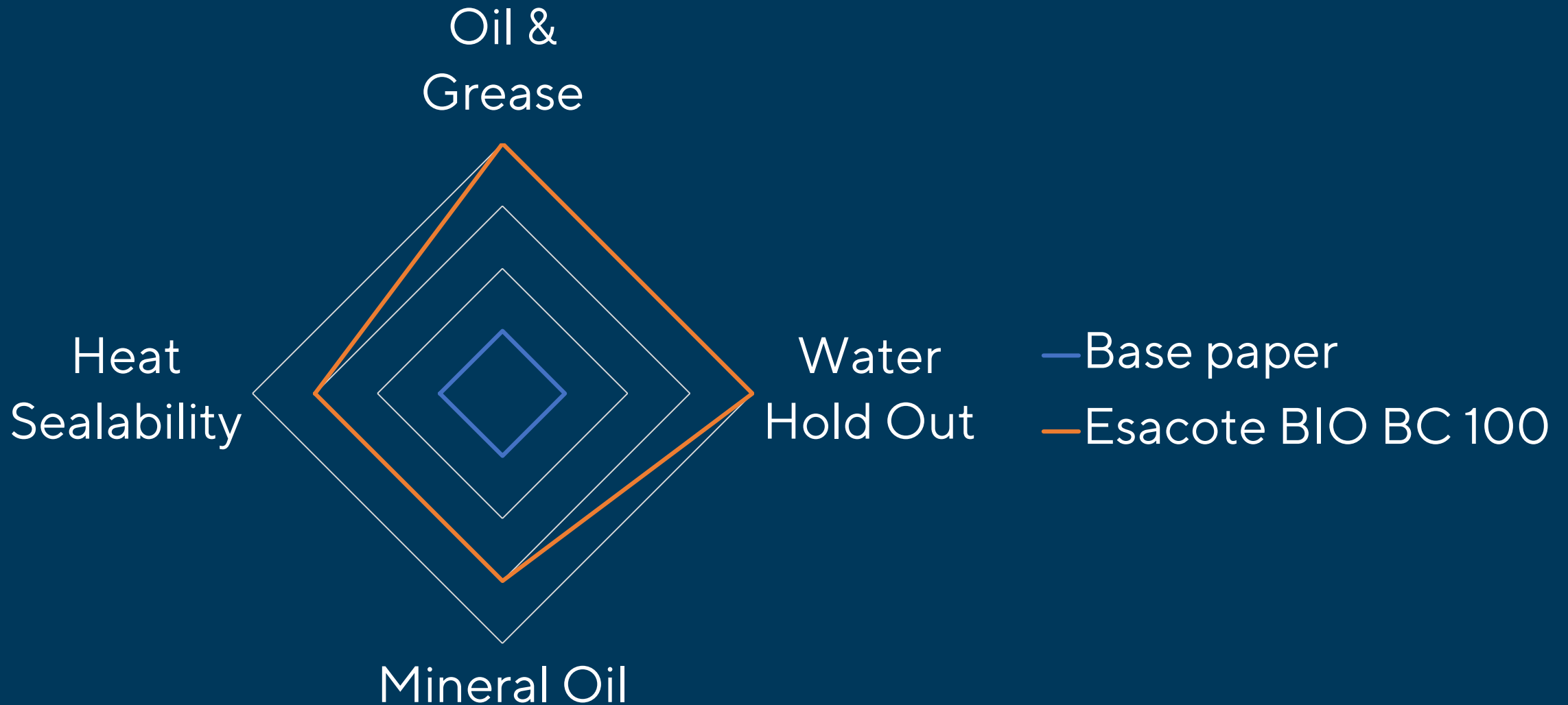


Grease and Oil





Esacote Bio[®] BC 100



Summary and Conclusion

Barriers

Wide range of barrier performances achievable, exploiting the combinations of different chemistries



Applications

Products suitable for different machines off & on line coating. A large portfolio of rheology modifiers to gain the right runnability on the machine



Sustainability

Products which not interfere with repulpability and/ or biodegradability of the base paper. Bio-content range from 0% to 100%



Thank you!

Q&A