

Sustainable & Biobased attributes Surface treatments market challenges

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Summary

1

**Lamberti
Expertises
& Solutions**

2

**Surface
treatments
challenges**

3

**New Paradigms
for Sustainable
markets**



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



Systemic solutions provider

→ Agriculture

We aim to feed the world minimizing the consumption of natural resource

→ Geoscience

Innovative, tailor made and fit for purpose chemicals for the Oil & Gas, Tunneling, Civil Engineering and Mining Industries

→ Personal Care

Experience and Vision

→ Ceramic and glassware

Our heritage to built an innovative ceramic hub

→ Food and regulated industries

A long and strong heritage allows us to offer natural polymers with high degree of purity

→ Surfactants

An extensive chemistry to optimize a variety of industrial applications

→ Surface treatment

Our tailor-made solutions and products reveal the ingenuity in approach of the diverse applications for coating and inks industries.

→ Leather for tanneries

High performance products for leather finishing

→ Leather for formulators

Chemical specialties to produce high performing formulations for leather finishing

→ Polymer beads

Next generation of matting agents and effect pigments

→ Drymix for construction

Our chemical additives are capable of solving issues caused by severe climate and help to achieve a desirable visual effect in design.

→ Wet end paper

The core of Paper and Board - Hydrocolloids technology that improves paper making cycle and final products.

→ Textile printing and finishing

Modern life is wrapped up in yards of different fabrics, starting from garments to industrial materials.



Global Presence





Snapshot

754 M€

Net group sales 2022

30+

R&D laboratories

1,371

Total number of
employees worldwide 2022

35

Total number of operations 2022



Surface Treatment Markets: Sustainability targets

Reduce the climate change impact: GHG Emissions:

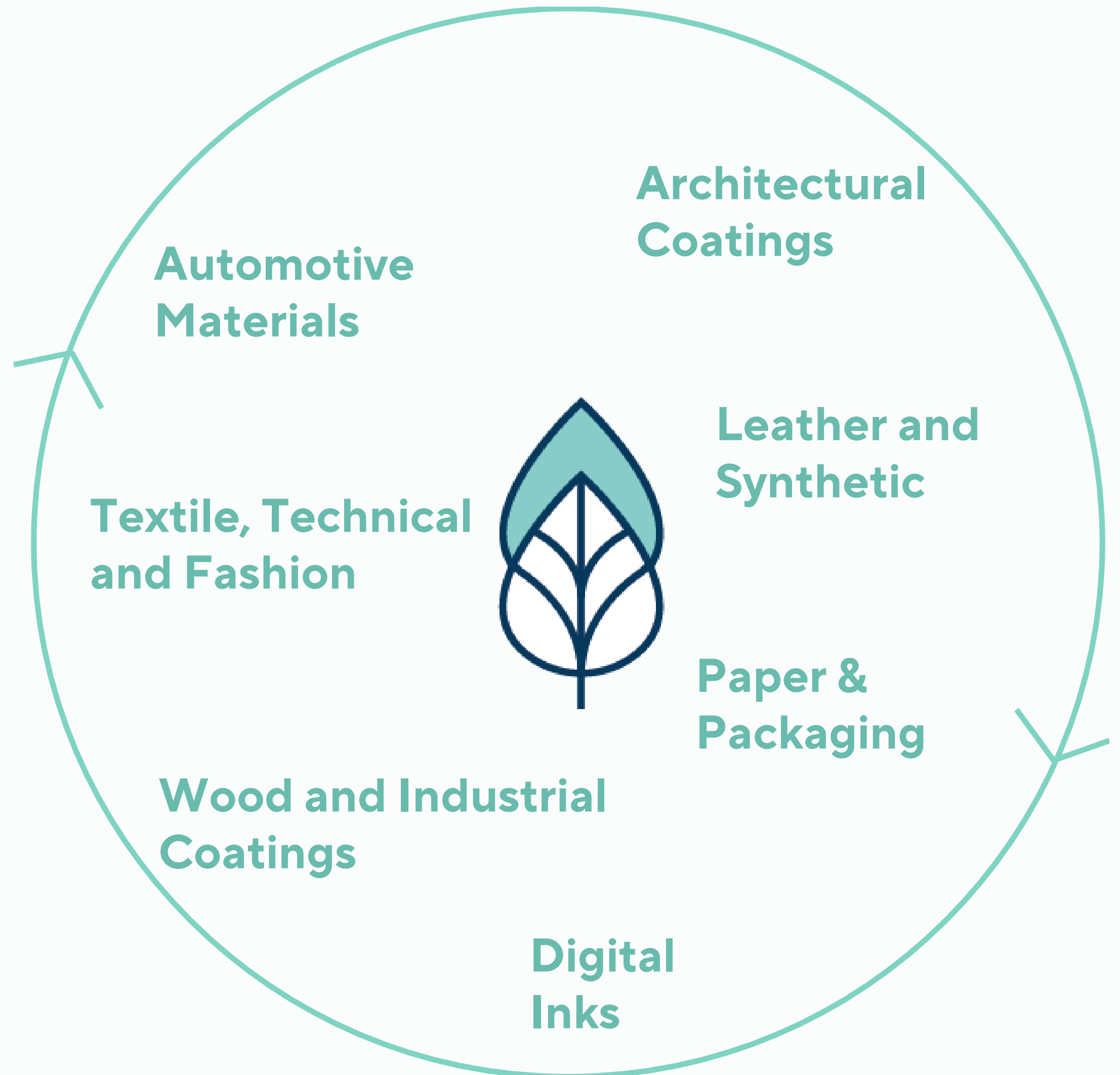
- Avoid introduction of fossil Carbon
- Extend life of treated articles

Reduce the waste and impact of Natural resources:

- Water consumptions
- Biodegradability
- Microplastics

Avoid Toxic impurities releases (VOC, RSL, SVHC)

New Design: Essentiality and Recyclability





Paradox of the challenges

**Multi Materials
coupled
Performance Vs
Circularity**

**Impact of
Emissions
Segmented supply
chain**

**No Harmful release
& impurities
Manufacturing and
using the article**

**Renewable
content
Segregated or
Allocated, and if
recycled?**

**Data Validity
Clear
communication
to Market**

**Responsible use of
natural resources
Knowledge /action
on the impact**

**Reuse & Recycle
final article
Comparable
performance**

**Natural Origin
Vs
Synthetic
Materials**

**Recyclable
Vs
Recycled**

**Biobased
Vs
Biodegradable /
Compostable**



Our Biobased Innovative Product offer



Biobased Waterbased Polymers

- Coating, Crosslinkers & Adhesives
- Renewable carbon content measured at product level
- Durability, Elasticity, Adhesion, Abrasion, Opacity, Fullness, Haptic Performance

 **Esacote Bio[®]**

 **Decosphæra[®]**

 **Rolflex[®] Bio**

Rheology Modifiers

- Allround Rheology performances
- Renewable carbon content measured at product level
- From Anti-sagging to Anti Spattering, from low shear to Newtonian

 **Esacol[®]**

 **Carbocel[®]**

 **Viscolam[®]**

Surfactants and Fatty Derivatives

- Auxiliaries, Additives, Dispersants
- Renewable carbon content measured at product level
- Including EO and PO free, floor care and mild detergents

Chimipal Bio

 **Fluijet[®]**

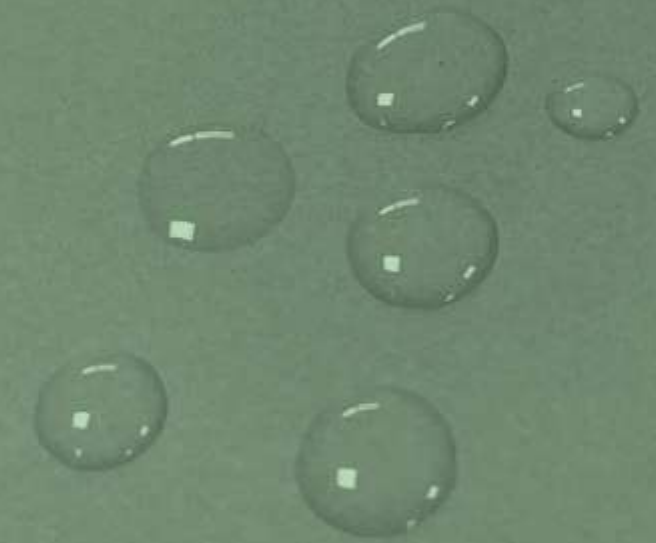


Water based polymers for Barrier Coating

Esacote Bio[®]

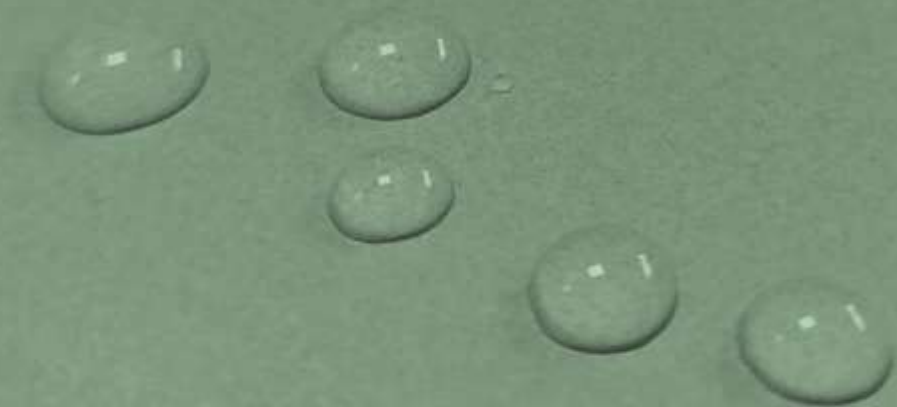


- Designed to perform as Barrier for cellulosic materials
- Up to 100% Biobased
- Food contact compliant
- Circularity & Performance build for new paper materials
- Replace pollutant materials



Mais Oil Drop

Water Drop



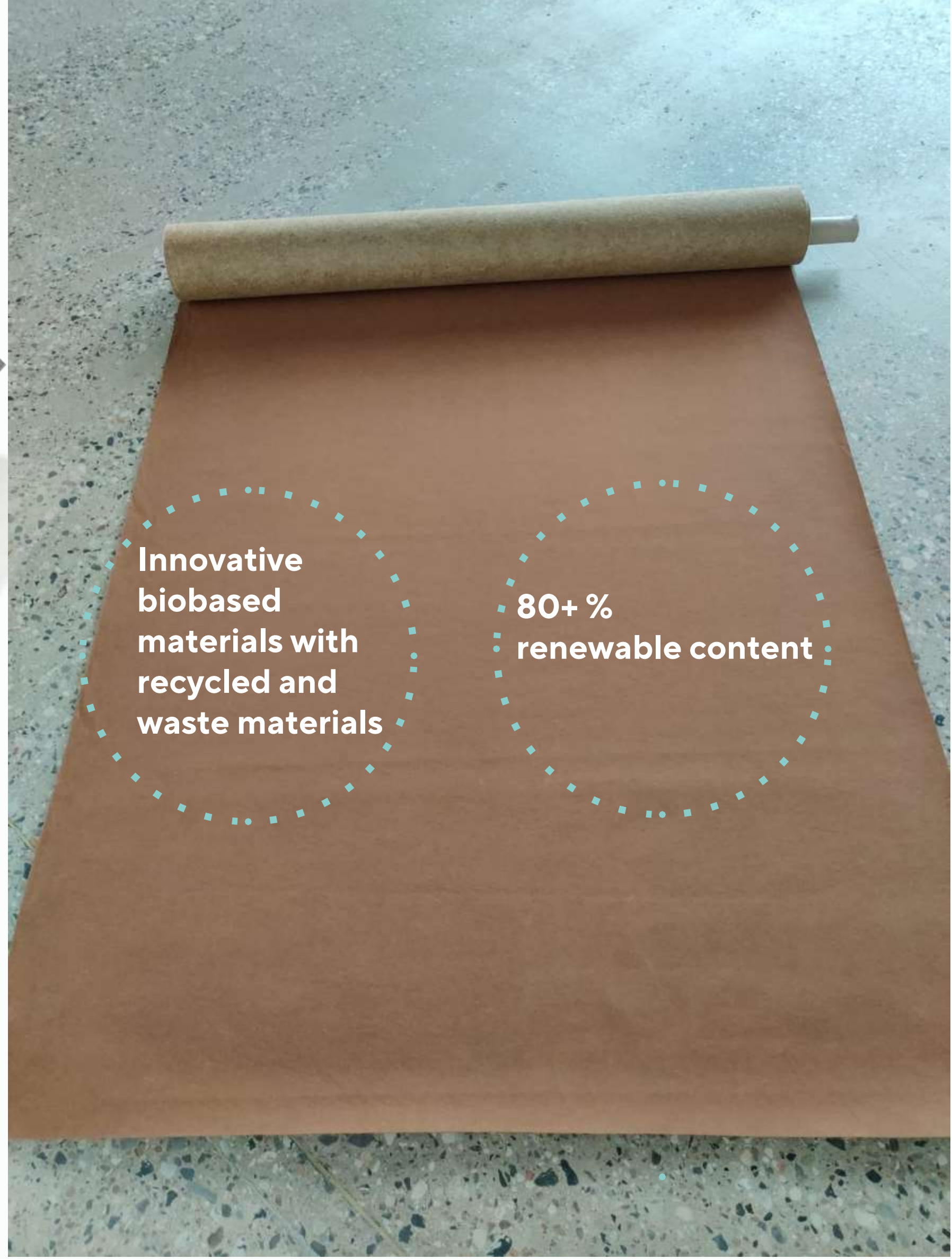
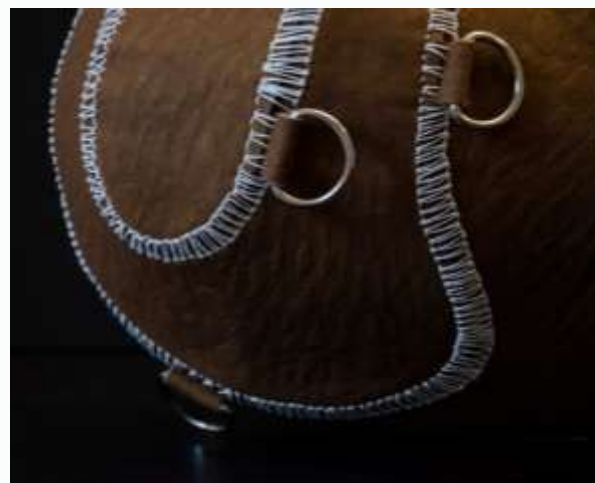


Rolflex® Bio

Renewable carbon and reduced footprint: Upholstery, bags and shoe upper



- 1 100% NATURAL BASED SUBSTRATE
- 2 Rolflex® BIO WATERBORNE TECHNOLOGY
- 3
- 4



Innovative
biobased
materials with
recycled and
waste materials

80+ %
renewable content



 **Fluijet®**

Neoprint

 **Rolflex® Bio**

Fluicol

Reduced Waste Water and Water pollution in textiles processes:

Dyeing with Neoprint

- Performant pigment dyeing product portfolio to avoid water consumption – no washing afterwards

Printing with Fluijet & Fluicol

- Readily biodegradable Pretreatments
- Digital inks and Additives

Finishing with Rolflex

- Biobased binders with Reduced impact on climate change
- Fluorine free water repellants avoiding persistent pollutant washed out during domestic laundry





Esacote Bio® Decosphæra® Viscolam®

Performance and Durability for coatings

- Biobased polyurethane and acrylic polymers film forming and polymeric matting additives
- Waterbased and Low co-solvent demand
- Visual & Haptic effects binders, additives
High gloss Vs Deep Matt, Soft Touch Vs Brushing
- Mechanical & chemicals endurances

- Rheology experties for all applications
- New technologies for film forming: Excimers, UV





Sustainable chemistry is reality. Let's work together!

A new concept of Innovation

- Supplier, Manufacturer and Designer work with open mindset on new sustainable materials
- Our Technologies are crucial to bring Savings on enviromental impact categories

Biobased product line for high

- Renewable carbon content and minimized usage of hazardouse substances
- Reduced Carbon Footprint
- Plastic free and recycled materials

Right Equilibrium of

- Performance,
- Easy handling
- Sustainability

For all Surface Treatments
at product Level



Follow our
Journey