



BioÄly Workshop TTY

Petri Heljo 13.9.2018

KIILTO FAMILY GROUP



KIILTO FAMILY OY

Parent company
of the group



KIILTO OY

Bonding and structural
solutions for construction
and industry



KIILTOCLEAN OY

Hygiene and cleaning
solutions



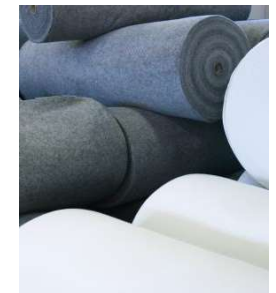
RAMPORT OY

Products for the furniture and
woodworking industries



KIILTOPLAST OY

Plastic coatings



INTERMEDIUS OY

Products for the footwear,
textile, steel and
engineering industries

€153.2 million

TURNOVER 2016

81.3%

EQUITY RATIO 2016

777

NUMBER OF EMPLOYEES 2016

9

COUNTRIES WITH AN OFFICE 2016

BONDING AND STRUCTURAL SOLUTIONS FOR

CONSTRUCTION



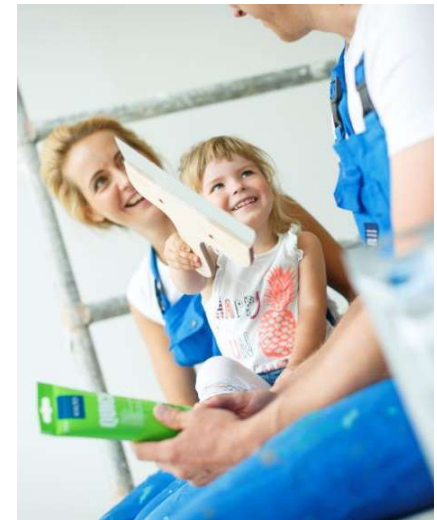
WET AREA WATERPROOFING



FLOOR CONTRACTORS



OTHER PROFESSIONAL
CONSTRUCTION



RENOVATION

BONDING AND STRUCTURAL SOLUTIONS FOR

INDUSTRIAL SECTORS



WOODWORKING INDUSTRY



PREFABRICATED BUILDING
ELEMENT MANUFACTURE
AND TRANSPORTATION
INDUSTRY



PAPER AND PACKAGING
INDUSTRY



FLAME RETARDANTS

A photograph of two men at a construction site. The man on the left is wearing a white hard hat, glasses, and a blue jacket, holding a stack of papers. The man on the right is wearing a blue hard hat, a yellow safety vest over an orange shirt, and work gloves. They are both smiling and looking at each other. The background shows a building under construction with scaffolding and various construction materials.

OUR MISSION:

BUILDING A SUSTAINABLE FUTURE



WE TAKE RESPONSIBILITY

For People and the Environment

We make sustainable choices and care for the environmental and safety aspects throughout the lifecycle of our products.



PACKAGING



RAW MATERIALS



SERVICES

KIILTO**PRO**
SERVICES

Sustainable packaging



Finnish Waste Act

- Primarily waste holder is responsible of waste disposal and related costs
- Producer's responsibility: Producer of packages is responsible e.g. of waste disposal instructions.
 - Kiilto Companies organize waste collection through Rinki eco take-back



EU Plastics Strategy

- Every year, Europeans generate 25 million tonnes of plastic waste, but less than 30% is collected for recycling.
- EU commission is preparing legislation to restrict single-use plastics..The goal is that by 2030 all plastic packages are recycleble. In addtion the target is that by the same year half of the plastic waste is recycled.
- The *European* Commission has asked Echa to prepare a REACH Annex XV restriction dossier on the use of intentionally added *microplastic* particles to all consumer and professional use products.

Packaging challenge

- Products: liquids, powders, paste.
- Packages: bottles, tubes, canisters, buckets, drums, containers, cartons, sacks, boxes, bag-in-box, bags...
- Package sizes: 50 ml – 1000 L; B2B- ja B2C- packages.
- Packaging materials: HDPE, LDPE, PET, PP, cardboard, metal.
- **UN approval required**
- **Wide pH range**
- Cosmetics
- Food contact approval



Packaging solutions



Recycled or bio based
package raw material

Sustainable materials

- Circular economy will become a norm in advanced economies in future years. Public demand, corporation ethics and governmental guidance will lead the development.
- Nordic Swan: Requirements for renewable, recycled and sustainable raw materials
- EU Action Plan for the circular economy
 - Promoting the efficient use of bio-based resources
 - Industrial symbiosis
 - EU Plastics Strategy
- EU Regulation on detergents: Biodegradable surfactants, strict limits for phosphorus content
- EU cosmetic legislation is up to date and regulates e.g. preservatives, UV-filters and colorants





Adhesives for decorative building

Wall and flooring adhesives

- Water based
 - Polyvinyl acetate (PVAc)
 - ethylene vinyl acetate (EVA)
 - modified starch
 - cellulosic modifiers
 - Resins
- Reactive:
 - polyurethane (PU)
 - silyl modified polymers (SMP)

Bio based
monomer
source

Bio based
polyols

Bio based raw
material
origin



Waterproofing membranes

- Water based
 - styrene butadiene rubber (SBR)
 - styrene acrylate
 - calcium carbonate fillers
 - Polyethylene



Dry mix: Cement based adhesives and mortars

Ceramic tile adhesives, joint mortars, levelling compounds

Dry mix products

- cement
- polymer powders
- quartz sand
- calcium carbonate fillers
- light weight fillers



Wood adhesives

- Waterbased
 - polyvinylacetate (PVAc)
 - inorganic salts
- Reactive
 - polyurethane (PU)
 - emulsion polymer isocyanate (EPI)



Paper converting, packaging and graphic industry

Water based, hot melts

- Waterbased
 - polyvinylacetate (PVAc)
 - ethyl vinyl acetate (EVA)
 - modified starch
 - dextrin
 - polyvinyl alcohol (PVOH)
 - polyacrylate
- Hotmelts
 - ethyl vinyl acetate (EVA)
 - modified resin (tall oil, colophony)
 - long chain hydrocarbons

Services

Additional value, waste management and reduced cost by services



Minimizing material loss

Optimized logistics

Packaging material optimization

Right solution for right problem



THANK YOU!