# A 75% reduction of greenhouse gas emissions (GHG) compared to solid cartridges is possible – learn more about our unique foil-based cartridge ecopaCC™!

**24 March 2022**

**An internal Life Cycle Assessment (LCA) was conducted by the ECODESIGN company for medmix, to assess the environmental aspects and impacts of the materials, manufacturing and distribution of the MIXPAC™ ecopaCC™ foil cartridge versus the medmix 600ml 1:1 polypropylene solid cartridge.**

**The results show that the greenhouse gas emissions (GHG) of ecopaCC are less than a quarter of the GHG of the solid cartridge in all these life cycle stages, and as such, ecopaCC offers a fully compatible product for standard dispensers with greatly reduced greenhouse gas emission.**

medmix is a leading provider of liquid application and mixing technologies. The company is a pioneer in developing and producing sustainable cartridges for sealants and adhesives for the construction and industrial sectors. A flagship product of medmix is the ecopaCC, with its unique special foil composite 0.15 mm thick, which replaces the 2.2 mm thick plastic body of the medmix solid cartridges. The new design of ecopaCC preserves the barrier and mechanical properties, safeguards performance and reliability, at the time that the chosen materials and improved production bring a drastic reduction of the greenhouse gas emissions.

Dr. Adriana Díaz, Life Cycle Assessment (LCA) expert at the ECODESIGN company in Vienna commented: *"We started in 2005 as a spin-off of the Vienna University of Technology, to help organizations analyze their products, assess the environmental aspects and impacts, and support the adoption of ecodesign strategies towards more sustainable products and operations of our clients. Key ecodesign strategies for primary packaging products include, for example, the reduction in the use of materials and the substitution of materials while preserving product functionality, and using low carbon energy sources for the production processes. These strategies are already implemented by medmix for the ecopaCC. Overall, the ecopaCC shows 154.7 gCO2-eq compared to 661.1 gCO2-eq for a solid cartridge, a reduction in GHG emissions of approximately 77%".*

The internal LCA of the medmix cartridges assessed the materials, manufacturing and distribution for a representative B2B scenario of the two cartridges. medmix gathered detailed and accurate data of energy use of their injection molding processes at their main cartridge production locations. With respect to distribution, the collapsible design of ecopaCC takes up four times less space than the solid cartridge in a lorry load, which results in less than a third of the GHG emissions of the solid cartridge.

*"We are delighted with the assessment results, which confirm and underpin our great efforts in making innovative and sustainable products. Ecodesign principles are a fundamental part of our innovative product portfolio and mindset",* said Roman Thoenig, Head Business Segment Industry at medmix.

medmix also tackled the challenge of reducing waste from the single use of cartridges. The ecopaCC foil cartridge body and piston can be reused, with a service life of up to 1000 uses for specific applications. This ensures that material savings are matched with less waste generation.

medmix is committed to low carbon energy use at the manufacturing plants in Poland and Switzerland, to further minimize the environmental impacts. The facility in Poland is powered by 100% wind energy. The Swiss plant is powered by 95% nuclear energy, with the remaining 5% a mix of renewable sources.

*"We already conduct internal LCA's", says Maxime Darimont, Sustainability Manager at medmix, "with these encouraging results, we are going to investigate the needs to perform independent LCA's". By assessing all aspects of our supply chain, products, operations and facilities – we can provide evidence of the sustainability advantages our products deliver. Using this evidence as a benchmark, we will continue to reduce greenhouse gas emissions across all areas of our business."*

**Image captions:**

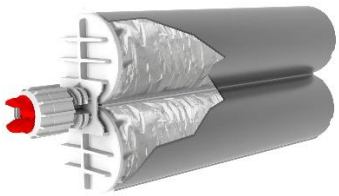

**Image 1:** MIXPAC™ ecopaCC™ foil cartridge shows a 75% reduction of greenhouse gas emissions (GHG).


**Image 2:** medmix is a pioneer in developing and manufacturing innovative cartridges for sealants and adhesives used in the construction and industrial sectors.


**Image 3:** MIXPAC™ ecopaCC™

**About medmix**

medmix is a global leader in high-precision delivery devices. We occupy leading positions in the healthcare, consumer, and industrial end-markets. Our customers benefit from a dedication to innovation and technological advancement that has resulted in over 900 active patents. Our 13 production sites worldwide together with our highly motivated and experienced team of 1,900 employees provide our customers with uncompromising quality, proximity, and agility. medmix is headquartered in Zug, Switzerland.

Our shares are traded on the SIX Swiss Exchange (SIX: MEDX). www.medmix.swiss

medmix Industry delivers the world's leading hand-held mixing and dispensing systems for adhesives and sealants. Through MIXPAC™, COX™ and MK™ we specialize in the mixing and hand-held dispensing of adhesives and sealants.We have strong partnerships with industrial manufacturing, production, coating, and construction leaders that have lasted for close to 100 years.

**Press contact:**
**medmix**
Roland Loacker
Head Marketing Industry Segment
Tel.: +41 81 414 70 57
roland.loacker@medmix.com

**PR agency:**
**DMA Europa**
**Jake Lacey-Watts**
Progress House, Great Western Avenue, Worcester,
WR5 1AQ, UK
Tel.: +44 (0) 1905 917477
jake@dmaeuropa.com
news.dmaeuropa.com