

Press Release

Total associates with partners to create a closed loop recycling chain in construction films

Brussels, March 13, 2019 - Total and several partners along the construction value chain have decided to associate to form the Clean Site Circular Project which aims at recycling natural shrink hoods* wastes from the construction sector in closed system without film performances degradation.

It has already been demonstrated that a closed loop 'shrink hood to shrink hood' is industrially feasible and technically equivalent to virgin solutions. The film recipe has been developed by Total. It requires the use of Total Lumicene Supertough® 22ST05 as "booster" for the recyclates in order to match the demanding market requirements.

The Clean Site Circular Project, coordinated by Valipac, brings together key actors along the value chain:

- Morssinkhof Rymoplast, which produces high quality recyclates from collected shrink hoods;
- Total Polymers, which has developed the film recipe and the "booster" for the recyclates;
- Oerlemans Packaging, which produces shrink hood films;
- Wienerberger, which uses the shrink hoods for their pallets of building materials;
- Valipac, which implemented the Clean Site System 15 years ago for the collection of wrapping films on construction sites;
- Fema, which represents the building material actors in Belgium.

Through Fema, the project members intend to spread over this success story to the construction market in Europe.

* Shrink hoods are films used for protection and stabilization of goods during storage and transport on pallets.

About Total Polymers

The Total Polymers Business Unit is part of the Refining & Chemicals division of the Total Group. In the field of polymers, Total combines its industry leading technologies, capabilities and expertise in catalysis, processes and products to provide high performance and sustainable solutions for its customers. Total uses renewable bio-sourced and recycled feedstocks and supports initiatives that aim to reduce its carbon footprint, in line with its commitment to better energy. www.polymers.total.com

About Valipac

Valipac is the Belgian EPR-scheme for industrial packaging. Valipac fulfills the legal obligations of its 7200 clients towards the prevention and the management of industrial packaging waste by gathering proof of recycling and/or recovery of the collected packaging waste. Valipac also carries the role to encourage the recycling of industrial packaging waste. To ensure that the materials are sorted at the source, Valipac provides financial support for those companies with active sorting schemes. We are also actively submitting and participating in demonstration projects, thus contributing to environmental and economical sustainable solutions. www.valipac.be

About Oerlemans Packaging

Oerlemans Packaging produces customer-specific, flexible high quality plastic packaging and films. New packaging concepts are constantly under development at the Oerlemans Packaging production sites. We are driving sustainability through the Re-Think Approach (www.rethinkplastics.nl). The Oerlemans Packaging Group consists of 7 subsidiaries. Each company has its own speciality. As a producer, OPACK can offer a complete package of flexible plastic packaging. The head office of Oerlemans Packaging is located in Genderen (North Brabant). www.oerlemanspackaging.nl

About Morssinkhof Rymoplast Group

Since the emerging usage of plastics Morssinkhof Rymoplast is the pioneer in [plastic recycling](#). With a production of more than 260,000 tons per year, Morssinkhof Rymoplast is one of Europe's largest producers of high grade recycled raw materials. The company serves the European market, ranging from small companies in the plastics processing industry to the world's largest multinational corporations.

Morssinkhof Rymoplast is a leading supplier of [regrinds, regranulates and compounds](#) and also a [reliable buyer](#) of sorted post-consumer and post-industrial plastics. www.morssinkhofplastics.nl.

About Wienerberger

Founded in 1819, Wienerberger looks back at a history of 200 years. Wienerberger is the world's largest producer of bricks (Porotherm, Terca) and the market leader in clay roof tiles (Koramic, Tondach) in Europe as well as concrete pavers (Semmelrock) in Central and Eastern Europe. In pipe systems (Steinzeug-Keramo ceramic pipes and Pipelife plastic pipes), the company is one of the leading suppliers in Europe. Wienerberger disposes of a total of 197 production sites in 30 countries. Wienerberger continuously strives for innovation with intelligent building concepts and comprehensive solutions. www.wienerberger.be/fr

About Fema

Fema represents 90% of the professional Building Material Distributors in Belgium. Its Mission comprises the social debate with unions about wages and working conditions, besides an active presence in the building value chain. Together with its sister organisation FEPROMA (representing 65 A-Producers of Building Materials) common projects are conceived and executed. Fema is a long-standing partner of Valipac to help evacuate Plastic Shrink Packaging from the Building Sites called "Clean Site System" (www.cleansitesystem.be). Nearly all its Members are involved in this operation. www.ufemat.eu

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