

CIRCULAR ECONOMY @ DERBIGUM®
FACTS AND FIGURES



NO
ROOF
TO
WASTE

Social responsibility

Derbigum (Imperbel S.A.) is a Belgian family company. Since its foundation in 1932, the company has made social responsibility part of its DNA, providing quality products and service under the Derbigum brand.

One of the pillars of this contribution to the circular economy has always been to provide waterproofing solutions with proven durability (40+ years).

Moreover, Derbigum has been certified to ISO 14001 for more than 20 years and has been committed to only using **green electricity** in the production of membranes at its Perwez and Lot sites for more than 10 years. In **2018** alone, this initiative **prevented 2,750 tons of CO₂** emissions.

The circular economy: DERBIGUM® leads the way

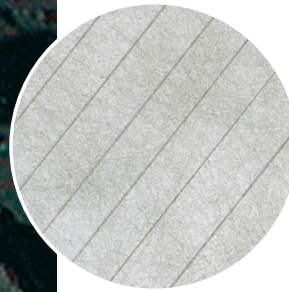
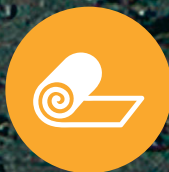
Recycled material in Derbigum® membranes

In Derbigum® NT:

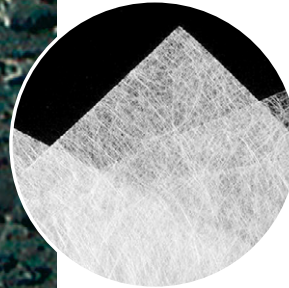
25% = 1.05 kg material/sqm

In Derbicoat® NT:

30% = 0.97 kg material/sqm



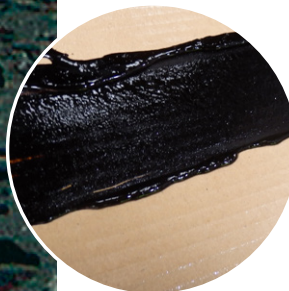
Glass-fibre
reinforcement
made from



Nonwoven polyester
made from



Recycled
polypropylene



Derbitumen®

Derbigum seeks consistency across its entire value chain. Raw materials are preferably supplied by companies that adapt a circular economy approach.

NO
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Bitumen, a winning product

The bitumen that we use today is the by-product of carefully selected crude oils.

Since ancient times, bitumen has been known for its waterproofing properties used for caulking boats, to ensure waterproofing, and also applied as a mortar in construction, especially for areas exposed to moisture such as the base of walls. Over time, its use in waterproofing roofs has expanded and brought real added value.

Derbigum is associated with petroleum through the use of bitumen and polymers. During its use in the production of waterproofing membranes, bitumen is not burned and so retains all of the CO₂ captured during the millennia preceding its extraction.

Derbitumen®: a unique contribution by Derbigum to the circular economy

Even at the end of their lifespan, which is proven to be more than 40 years, Derbigum membranes are **100% recyclable**.





Since the 1990s, Derbigum has invested in **upcycling bituminous membranes** which have reached the end of their lifespan. The process that has been developed has resulted in the production of **a new raw material: Derbitumen®**. This process has **less environmental impact** than the production of bitumen from crude oil extraction.

Production of 1 kg of Derbitumen® prevents the emission of 0.5 kg CO₂ and 1.4 litres of petroleum.

In total, nearly **1 million sqm** of bituminous membranes are upgraded each year with Derbitumen® at our reprocessing unit.

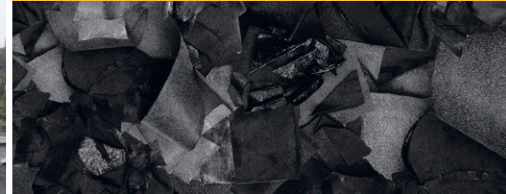
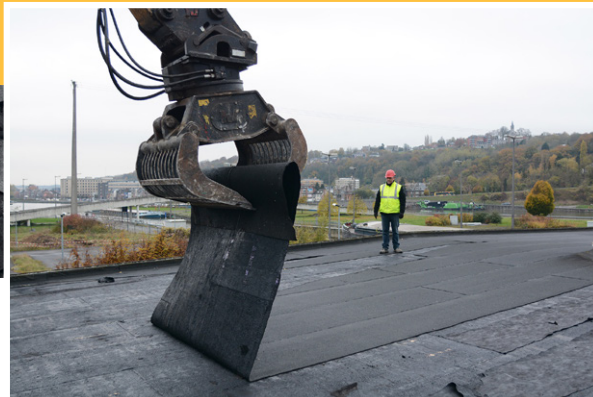
Derbigum aims to increase production to 5,000 tons of Derbitumen® in 2021, saving 2,500 tonnes of CO₂ emissions and more than 7 million litres of petroleum.

By upgrading end-of-life membranes with Derbitumen®, Derbigum completes the circular economy process. Derbitumen® is used specifically in the production of bituminous membranes from the NT range, launched in 2009. Thus, the circle closes with its original functionality.

Impact in figures					
		Savings in CO ₂ emission	Savings in litres of petroleum	Savings in km of a diesel car (140g CO ₂ /km)	Saving equivalent to a tree neutralizing ± 20 kg CO ₂ /year
Conception membrane	<ul style="list-style-type: none"> • proven durability > 40 years • product 100% recyclable 				
Conception & production membrane	Production with 100% green electricity	2,750 tons (in 2018)			185,000 (in 2018)
Production Derbitumen®	3,100 tons in 2018	1,550 tons	4,4 million	11,08 million	115,000
Usage of Derbitumen® in the NT-range	8.3 million sqm of NT membranes installed since 2009				
Share of NT range in use (1,000 sqm)	Reduction effect of two layer system	718 kg	2000		



With the use of Derbitumen® in the production of bituminous membranes in the NT range, Derbigum upcycles membranes at the end of their lifespan, thus completing the circular economy process.



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