

contec

Ecology



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Environmental awareness and sustainability have been an integral part of our systems and work ethic ever since our company was founded.



The Contec Nature Park

The Foundation for Nature & the Economy awarded the flat roof and green area around our headquarters in Uetendorf with the quality label „Nature Park“.

Bags from offcuts

We deliberately use our materials very sparingly. So since 2003, we have collected the clean offcuts from the roof insulation production to produce a range of bags and practical accessories. Small leftover pieces are shredded and processed into rubber mats. And the separating films made from PE on the Contec.proof carrying rolls are 100% recycled to produce PE vapour barriers.

Recycling the products

We centre a lot of our attention on recycling at Contec. Recycled components in drainage, protective and thermal barrier coatings are proof of an ecologi-

cally effective system. The roof substrate Contec.fior consists of 75% recycled tiles that have been collected locally. Mixed with gravel and compost, they are then turned into a 100% natural recycled product.

Recommended by Greenpeace

eco-bau, the platform for sustainability in construction, rated Contec.proof highly with respect to grey energy, maintenance-friendliness, durability, and other important key figures. Just one reason why our seal is also recommended by Greenpeace.

intep

The company intep works and advises in, among others, the field of quality and environmental management. We asked them to compare our Contec.proof with bitumen and plastic. The result: the statistics and the conclusion can be found on the next page.



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intep study

The study revealed that in comparison with its competitors in ecological terms, the roof waterproofing from Contec was clearly better over the entire life cycle of the products taking into account the predicted service life.

Durable and recyclable

The 40-year old (or more) benchmark properties with roof waterproofing from the Contec.proof product range are undisputable examples of highly resistant, weather-resistant and root-resistant waterproofing systems. A Contec.proof seal has never had to be replaced because of material damage! In the case of mechanical damage, repairs can be carried out very easily, quickly and efficiently.

In the area of recycling, Contec AG has implemented a comprehensive recycling concept for using the production waste created during packaging. Residual rubber is delivered to processing plants, where it is shredded into rubber granules and processed into building protection mats. Contec AG brings back old EPDM roof systems and uses them as covers for silages, firewood or used car seals or processes them into building protection mats.

Harmless material properties

Independent tests conducted by EMPA in 2010 on „Leaching of additives from plastic roofing sheets under the influence of water“, demonstrated that there was no apparent leaching of metals from Contec.proof materials, which is harmful to the environment.

Environmental impact

Method

Life Cycle Assessment method (or LCA) provides a basis for calculating the ecological characteristics of a product or process. ISO 14044, together with ISO 1404, is the standard for an ISO-compliant life cycle assessment. It is generally divided into the following four steps:

- Definition of goal and scope,
- Life cycle inventory analysis,
- Impact assessment and
- Evaluation.

Results for EPDM roof waterproofing

(Production and disposal)

The environmental impact of a kilogram of EPDM roofing is shown in the table below on the basis of: grey energy (non-renewable primary energy), greenhouse gas emissions and overall environmental impact.

The product corresponds to one kilogram of EPDM roofing membrane with the following properties: Material: EPDM rubber, thickness: 1.5mm, Area: 0.5m²; density: 1,250 kg/m³

Overview of results for one kilogram of EPDM sealing from Contec

Grey energy [MJ / kg]: 89.79

Greenhouse gas emissions [kg CO₂-eq.]: 6.06

Environmental impact [points]: 4,294

Results compared with competing products (total service life)

A square metre of Contec roof waterproofing was compared with the following products and their properties for their respective service life:

EPDM Contec AG

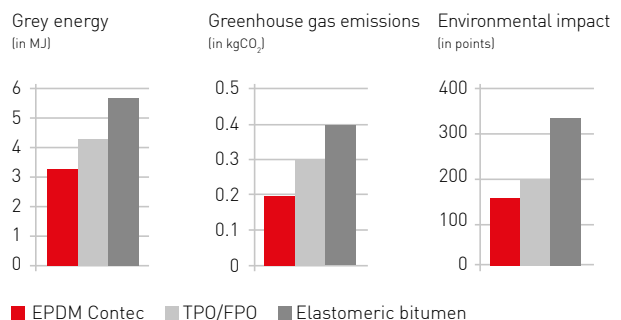
Thickness: 1.5mm, density: 1,250 kg/m³, basis weight: 1.9 kg/m², Service life 50 years

TPO/FPO

Thickness: 1.6mm, density: 1,000 kg/m³, basis weight: 1.6 kg/m², Service life 30 years

Elastomeric bitumen

Thickness: 7.0mm, Density: 543 kg/m³ basis weight: 3.8 kg/m², Service life 30 years



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Conclusion:

The illustrations on the previous page show that 1m² of EPDM Contec.proof seal has proven better ecological environment behaviour overall than sealing products with the same function because of its significantly longer service life forecast.

