

**Rhepanol roofing membrane system  
sets ecological standards**



Roofing  
membranes



Rhepanol® fk Rhepanol® hg

Life Cycle Assessment

# Outstanding result: The Life Cycle Assessment of Rhepanol® fk and Rhepanol® hg



## **The Rhepanol roofing membrane system. Best for the flat roof and good for the environment**

Rhepanol fk and Rhepanol hg demonstrate that high product quality can be of great ecological value. The independent testing authority C.A.U. Ltd. has confirmed this for both products in its Life Cycle Assessment according to DIN EN ISO 14 040 ff.

## **Many advantages. Top of the list: the proven durability of the Rhepanol family**

The extremely long service life of more than 30 years – actually proven on reference projects with Rhepanol fk – significantly contributes to the outstanding results of the overall Life Cycle Assessment of the roofing membranes.

## **Really unique feature: the ingredients**

Another important aspect which has been considered during the Life Cycle Assessment are the composition and raw materials employed. All relevant components were scrutinised, even the behaviour of the material during application and recycling/disposal has been subject to testing. The result: harmless to the environment throughout the whole product life cycle.

## **Another advantage: the production process**

The impact of using highly effective biofilters: the production of Rhepanol fk and Rhepanol hg does also not entail any significant environmental impact. The relatively low energy consumption for the production process is also assessed favourably in regard to the global climate impact.



All waste materials of the production process are collected, separately recycled and utilised again in the production process. The total energy balance is far more positive, among other things due to the use of mineral aggregates, than it is with using mass synthetics like polyethylene as virtually all their single ply systems.

## **Another major plus: no heavy metals**

With Rhepanol fk and Rhepanol hg, we have deliberately avoided the use of cadmium and lead for stabilisation. We also managed to reach high fire protection features without halogens such as chlorine and bromine. And thanks to the elasticity of the basic polymer PIB, Rhepanol fk and Rhepanol hg also do not require any plasticisers.

## **Very comforting: the material fire behaviour**

A comparative test of the Bayreuth Institute of Environmental Research has proven: in a fire, Rhepanol shows the lowest emissions of ecologically hazardous matter. For several ingredients the findings of the survey report were even below the analytic detection level.

## **A final great advantage: innocuous disposal and recycling**

The disposal of these roofing membranes – Rhepanol fk and Rhepanol hg – is in no way hazardous to the environment. The material can also be recycled into a reusable product without any problems.



**FlachdachTechnologie GmbH & Co. KG**

Eisenbahnstraße 6-8  
68199 Mannheim  
Germany

Tel +49-6 21-85 04-3 72  
Fax +49-6 21-85 04-3 78  
www.fdt.de