

DEKRA Group – Your partner for sustainable construction

Green product card for **Cool-R water insulation system manufactured by Selena FM S.A. including multicriteria certification requirements in accordance with standard**



BREEAM International NC 2016





Green product card content

This green product card contains a summary of BREEAM requirements applicable to COOL-R and narratives explaining how COOL-R helps to meet the requirements of BREEAM International New Construction 2016 v2.

Each of the requirements, which according to DEKRA is applicable to COOL-R, has been described on the following pages of this card.

Summary of BREEAM compliance

COOL-R helps to achieve points and meet the requirements of the following BREEAM credits:

BREEAM requirements	Number of BREEAM credits
<i>Mat 01 Life cycle impacts</i>	1 credit
<i>Mat 01 Life cycle impacts – exemplary level criteria</i>	1 credit
<i>Ene 01 Reduction of energy use and carbon emissions</i>	up to 15 credits



POINTS POSSIBLE TO OBTAIN: 1 credit in Materials and 1 credit Innovation category

Issue Mat 01 Life cycle impacts

INTENT

To recognise and encourage the use of robust and appropriate life cycle assessment tools and consequently the specification of construction materials with low environmental impact (including embodied carbon) over the full life cycle of the building.

BREEAM requirements applicable to COOL-R

One credit – Environmental product declarations (EPD)

Where a range of at least **five** products specified at Design Stage (DS) and installed by Post-Construction Stage (PCS) are covered by verified EPD.

One credit – Exemplary level criteria

The requirements for exemplary criteria outlined in Table 41 have been achieved.

DEKRA comment – i.e. Life Cycle Assessment has been carried out within the scope outlined in Table 41, Issue Mat 01 – Life Cycle Impacts

and

Where a range of at least **ten** products specified at Design Stage (DS) and installed by Post-Construction Stage (PCS) are covered by verified manufacturer specific EPD.

How COOL-R helps meet BREEAM requirements

Product meets BREEAM both credit requirements as per CN 3.2:

- Product meets the definition of one of ten product groups defined in table 44 Mat 03 – Responsible sourcing of construction products, i.e. Group 8 – „Plastic, polymer, resin, paint, chemicals and bituminous”,

and

- Has Environmental Product Declaration EPD Type III from August 2018 valid for 5 years from issue date or until amendment of the declaration.

POINTS POSSIBLE TO OBTAIN: up to 15 credits

Issue Ene 01 Reduction of energy use and carbon emissions



INTENT

To recognise and encourage buildings designed to minimise operational Energy demand, Primary energy consumption and CO₂ emissions.

BREEAM requirements applicable to COOL-R

Use of approved building energy calculation software

Calculate an Energy Performance Ratio for International New Constructions (EPRINC). Compare the EPRINC achieved with the benchmarks in Table 26 and award the corresponding number of BREEAM credits.

A description of how the EPRINC is calculated from a building's modelled energy demand, primary energy consumption and CO₂ emissions is provided in the Methodology section of BREEAM International New Construction manual.

How COOL-R helps meet BREEAM requirements

Product has EPD Type II number 076/2018 confirming it's contribution to energy efficiency improvement.

Product with ITB EKO label delivered:



076/2018
valid till 30.08.2021
Reduces energy consumption*

*Concerns possible decrease of energy consumption required for cooling the premises and possible decrease of energy demand required for cooling devices operation in the buildings where COOL-R reflective waterproofing coating was applied.



Definitions and other parameters

Environmental Product Declaration – EPD

A statement that the item meets the environmental requirements of ISO 14021-1999, ISO 14025-2006 and EN 15804, or ISO 21930-2007.

Green product card delivery process

DEKRA Polska was instructed SELENA FM S.A. to assess compliance with selected BREEAM International New Construction 2016 v2 credits for COOL-R high-reflectance roofing membrane, referred to as COOL-R, based on the following:

- ✓ Technical data sheet COOL-R Coating TDS-1-2018-EN
- ✓ European Technical Assessment ETA: ETA COOL-R 16-0609,
- ✓ Material Safety Data Sheet: MSDS-D-213-EN-Cool-R
- ✓ SRI laboratory testing reports for MATISOL and AQUA PROTECT COOL-R
- ✓ Declaration of VOC content
- ✓ EPD Type III issued in August 2018
- ✓ EPD Type II issued in August 2018

The purpose of this green product card is to enable easier assessment of compliance with BREEAM requirements for the building in which COOL-R will be used. The product itself can contribute towards earning BREEAM credits as described in this card, provided that all other credit requirements are met.

The information contained herein has been obtained from sources deemed reliable. While every reasonable effort has been made to ensure its accuracy, DEKRA Polska cannot guarantee it.