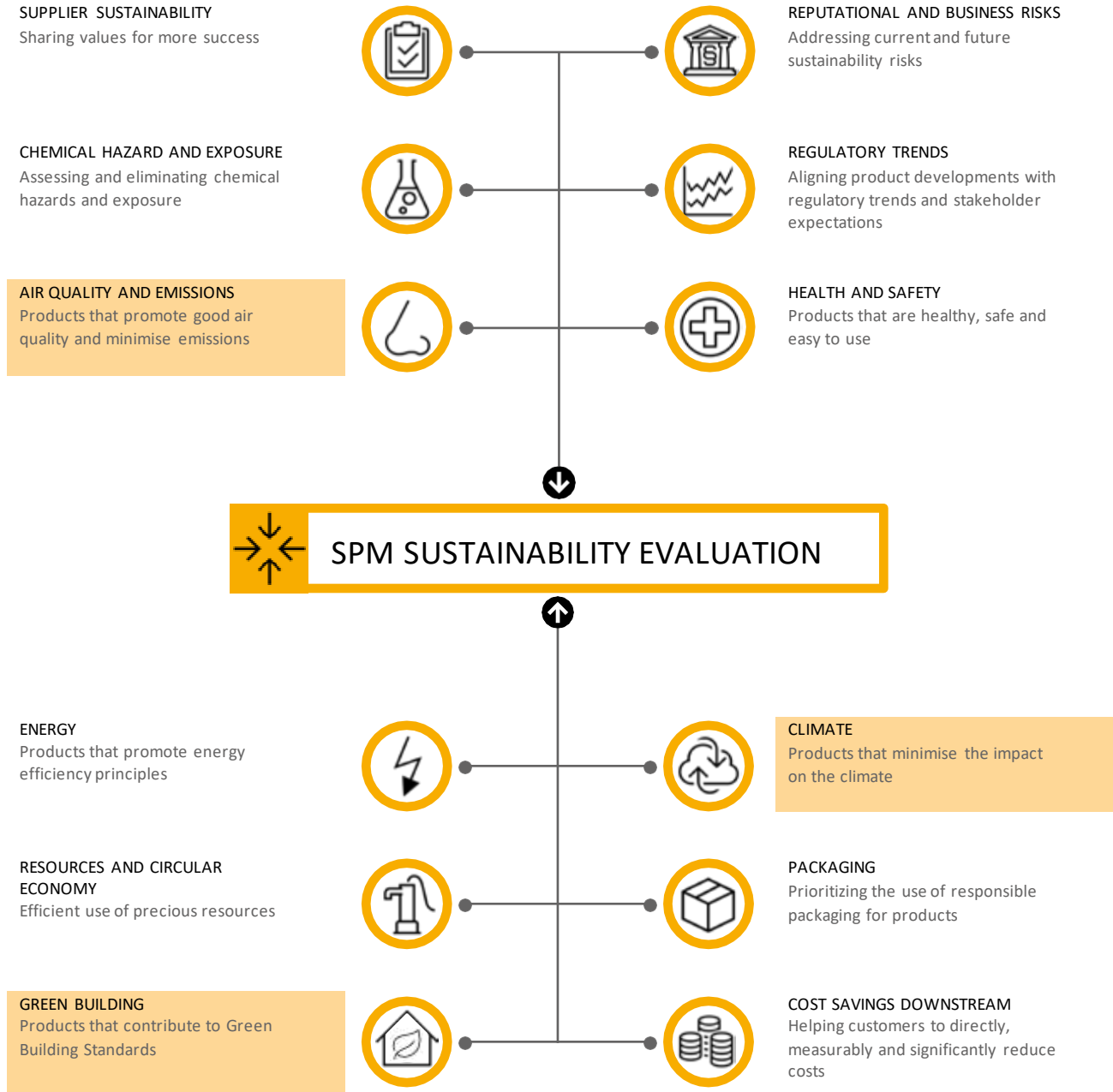


# SikaCeram®-290 StarLight

Sustainability Portfolio Management (SPM) is the mechanism used by Sika to evaluate and classify its products in defined segments in terms of Performance and Sustainability. Sika’s SPM Methodology is based on and conforms with the WBCSD’s Chemical Industry Methodology for Portfolio Sustainability Assessments (PSA). The methodology includes a Sustainability evaluation step involving a detailed evaluation of the product against a range of criteria covered within the 12 most material Sustainability Categories for Sika.

The relevant Sustainability Categories for this product are highlighted in the infographic below.



## SikaCeram®-290 StarLight

### MORE PERFORMANCE — MORE SUSTAINABLE

MORE PERFORMANCE MORE SUSTAINABLE stands for Sika's product innovation through a unique combination of higher performance and proven sustainability benefits. A Sustainable Solution is a product in a given application which combines superior performance with a significant sustainability contribution within its technology range for our customers

### PRODUCT CHARACTERISTICS AND BENEFITS

SikaCeram®-290 StarLight is a high-performing and sustainable cementitious tile adhesive (class C2TE S1) for laying tiles, containing supplementary cementing materials (SCM). With one 25kg bag of mortar, Sika customer benefits from:

- Approximately 12% CO<sub>2</sub> eq. savings per m<sup>2</sup>
- Low dust formation during handling
- Direct contribution to LEED v4 credits

### CLIMATE: REDUCED CARBON FOOTPRINT

SikaCeram®-290 StarLight has a reduced carbon footprint as a result of the partial replacement of Ordinary Portland Cement (OPC) with Supplementary Cementing Materials (SCM). When compared to a reference C2TE S1 Class cementitious tile adhesive, the raw material composition of SikaCeram®-290 StarLight shows approximately reduction in Global Warming Potential (GWP) of 12% per m<sup>2</sup> applied. This corresponds to approximately 1.6kg of CO<sub>2</sub> eq. saved per 10m<sup>2</sup>.

- A Life Cycle Assessment (LCA) was conducted in order to generate the GWP figures presented in this factsheet. The scope of the LCA was to compare the formulation of this new sustainability optimized binder formulation to the formulation of a reference C2TE S1 Class cementitious tile adhesive in order to evaluate the impact of the improved formulation.
- LCA is a standardized method used to assess and compare the inputs, outputs and potential environmental impacts of products and systems. The LCAs conducted internally by Sika are performed according to ISO 14040 and EN 15804 standards and make use of the CML 2001 impact assessment methodology. Sika LCAs makes use of Sika and industry-standard data.

### AIR QUALITY AND EMISSIONS: REDUCED DUST FORMATION AND LOW VOC

- SikaCeram®-290 StarLight shows a significantly dust-reduced compared to a reference cementitious tile adhesive (class C2TE S1) based upon suitable scientifically internal laboratory test and is amongst the best-in-class solutions in the market with regards to its dust reduction level. The dust content measurement was carried out with the DustMon test device, an independent measuring system for determining the dust behavior during handling and mixing powdery dry mortar.

There are currently no standardized and official limit values, of which dust classes or the like derive. For this reason, the test results are compared to a defined reference sample of the predecessor product. The dust level is evaluated by the dust-index-level taken over a period of 30 seconds.

- SikaCeram®-290 StarLight has been externally tested for VOC emission and content in accordance with the GEV Testing Method. The product was classified as EC1 Plus and awarded the licence for the use of the GEV Trademark.

### GREEN BUILDING: MEETS LEED V4 REQUIREMENTS

SikaCeram®-290 StarLight is part of the Sika LEED product portfolio and conforms on three LEED v4 credit requirements, thus directly contributing to the attainment of 2.5 points. More details about the individual credit fulfilment are given in the Sika LEED Attestations.

- LEED v4 "Indoor Environmental Quality" credit "Low-emitting materials" (1 pt)
- LEED v4 "Materials and Resources" credit "Building product disclosure and optimization - environmental product declarations" Option 1 (0.5 pt)
- LEED v4 "Materials and Resources" credit "Building product disclosure and optimization - sourcing of raw materials" Option 2 (1 pt)

The information contained herein and any other advice are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. The information only applies to the application(s) and product(s) expressly referred to herein and is based on laboratory tests which do not replace practical tests. In case of changes in the parameters of the application, such as changes in substrates etc., or in case of a different application, consult Sika's Technical Service prior to using Sika products. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.