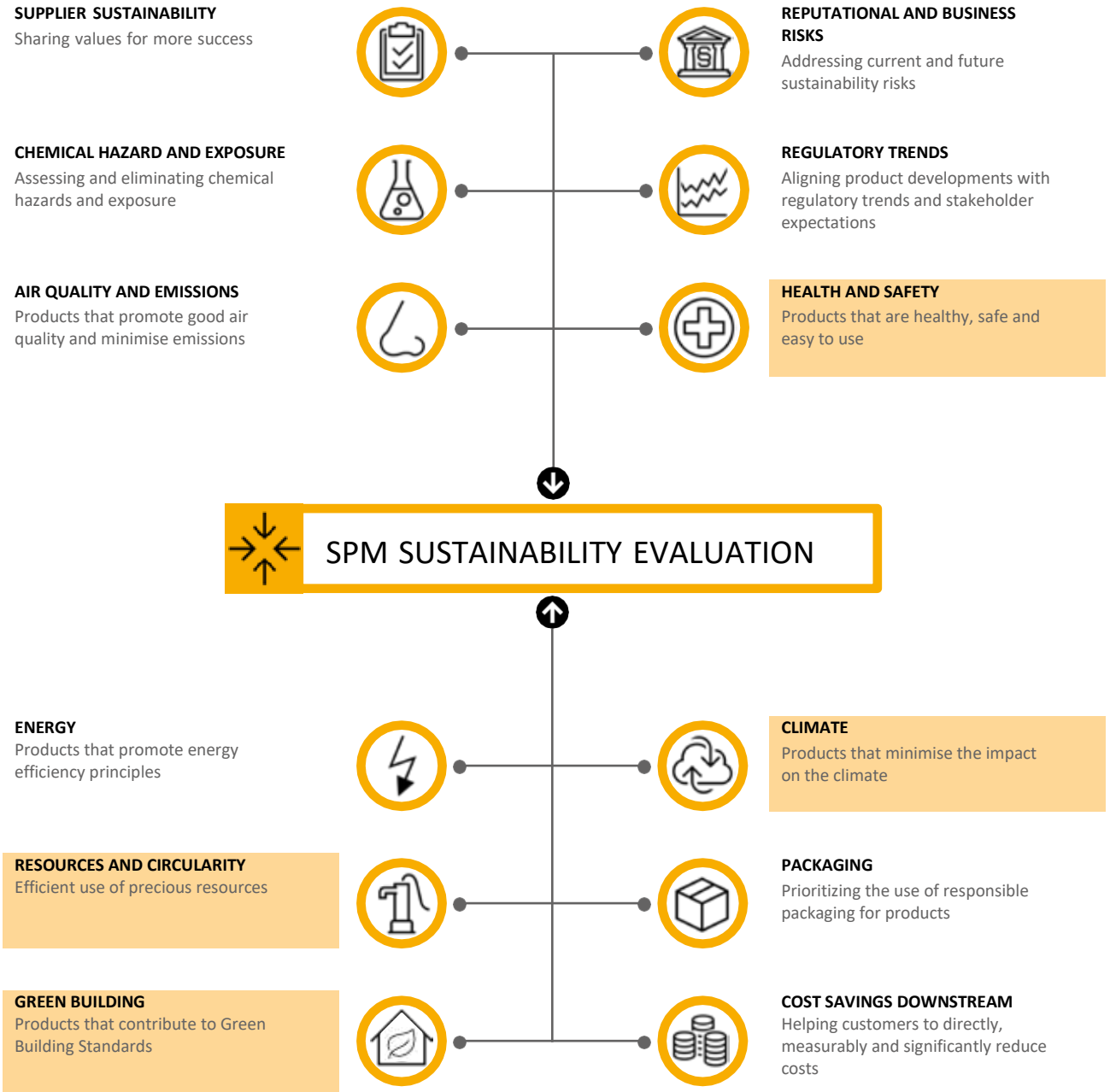
Sika Top®-209 Plus ES

Sustainability Portfolio Management (SPM) is the mechanism used by Sika in order to evaluate and classify its products in defined market segments in terms of Performance and Sustainability. The outcome of the SPM evaluation is a portfolio of "Sustainable Solutions" – products with combined significant Sustainability and Performance benefits.

The evaluation criteria that fall under the sustainability category of SPM are presented in the infographic below.



SUSTAINABILITY FACT SHEET

Sika Top®-209 Plus ES

MORE PERFORMANCE
MORE SUSTAINABLE

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

Sika Sika Top®-209 Plus ES is a two component flexible waterproofing mortar, based in suplementary cementitiuos material, with selected aggregates and modified polymers., cement free by replacement with Supplementary Cementitious Materials (SCM). Sika customers benefit from:

- **CLIMATE**: 14% reduced carbon footprint in comparison to internal reference product
- **RESOURCES AND CIRCULARITY:** includes SCM that contributes to circular economy
- **HEALTH AND SAFETY:** cement replacement reduces the exposure during application to harmful substances
- **GREEN BUILDING:** direct contribution to LEED v4/V4.1

CLIMATE: REDUCED CARBON FOOTPRINT OF PRODUCT

The carbon footprint of Sika Top®-209 Plus ES is 14 % lower than the carbon footprint of the internal reference waterproofing mortar[1]. The reduction in the carbon footprint of Sika Sika Top®-209 Plus ES was achieved by total replacement of cement with SCM in the formulation.

Basis for the LCA calculation is:

- A Life Cycle Assessment (LCA) was conducted in 2023 to generate the carbon footprint reductions presented in this factsheet according to the requirements of ISO 14044. The carbon footprint is quantified in kg CO_2 equivalents (CO_2-eq) based on IPCC AR6 GWP100 incl. biogenic CO2, incl. luluc.
- The goal of the LCA was to compare the raw material composition of this product, produced in Europe, with the internal reference to evaluate the carbon footprint reduction of the improved formulation.
- This factsheet shows the comparative results for the product's raw materials (cradle to raw material), as the focus of the product development was to improve the formulation, which represents the largest share of the product carbon footprint. Transport and manufacturing processes are similar for both products.
- The LCI used for the LCA calculation consists of secondary data from Sphera MLC Databases which are generic or average representations of the raw materials, as well as primary data from suppliers if available. The regional, technological and time related representativeness of the LCA results are fair[2].

RESOURCES AND CIRCULARITY: RECYCLED CONTENT

Sika Top®-209 Plus ES contains recycled content of 21.8 %.The recycled material is sourced from by-product from iron and steel production.

HEALTH AND SAFETY

Due to its improved Environment Health and Safety (EHS) composition, Sika Top®-209 Plus ES has reduced its labelling as a dangerous good, compared to the internal reference waterproofing mortar. The product reduces exposition to harmful substances during application and/or use. For further information, refer to the Material Safety Data Sheet (MSDS)

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[1] The comparative reference product is the best-selling product in the Product Technology Application Combination (PTAC), a unique combination of the application and market segment, brand family and technology of a given product, which ensures a homogenous approach, as products in a well-defined segmentation will have a similar sustainability profile. More details can be provided upon request.

[2] The LCA study has not been independently reviewed for conformance with ISO 14044 and 14067. The calculation has been conducted involving Sika's R&D and LCA specialists under consideration of Sika's internal quality assurance processes.

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GREEN BUILDING: MEETS LEED V4/V4.1 &BREEAM ES REQUIREMENTS

Sika Top®-209 Plus ES is part of the Sika LEED product portfolio and conforms on three LEED v4 credit requirements, thus directly contributing to the attainment of 3 credits under LEED V4/V4.1. More details about the individual credit fulfillment are given in the Sika LEED Attestations.

- LEED v4/v4.1 MR Environmental Product Declarations (Option 1): Sika Top®-209 Plus ES has a generic EPD and contributes toward satisfying 1 point
- LEED v4/v4.1 MR Sourcing of Raw Materials: Sika Top®-209 Plus ES has 0%preconsumer and 16.8% post-consumer recycled content od and contributes toward satisfying 1-2 points
- LEED v4/v4.1 MR Material Ingredients (Option 2): Sika Top®-209 Plus ES complies with the REACH Optimization Option for projects outside the US and contributes toward satisfying 1 point

Sika Top®-209 Plus ES s part of the Sika BREEAM product portfolio and contributes to 5 assessment issues of BREEAM ES VIVIENDA 2020. More details about the contribution to each assessment issue are given in the respective Sika BREEAM Attestation

Direct contribution to assessment issues:

- Mat 03 Responsible sourcing of construction products: The production of Sika Top®-209 Plus ES is covered by the independently verified Environmental Management System (EMS) ISO 14001 of Sika and contributes toward up to 3 credits
- Gst 03: Working site impact: Sika Top®-209 Plus ES is distributed in pallets made of wood with certified and legal origin an contributes toward 1 credit.

Indirect contribution to assessment issues:

- Mat 01 Environmental impacts from construction products - Building life cycle assessment Sika Top®-209 Plus ES has a good environmental performance (EPD) and contributes toward 7 credits
- Mat 05 Designing for durability and resilience: Product contributes to the protection of exposed/vulnerable parts of the building from material degradation and contributes toward 1 credit
- Inn 01 Innovation: Sika Top®-209 Plus ES offers an innovation to the construction sector as its offers sustainability benefits in terms of a Reduced Carbon footprint and promotes circulas economy, and therefore contributes toward 10 credits

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