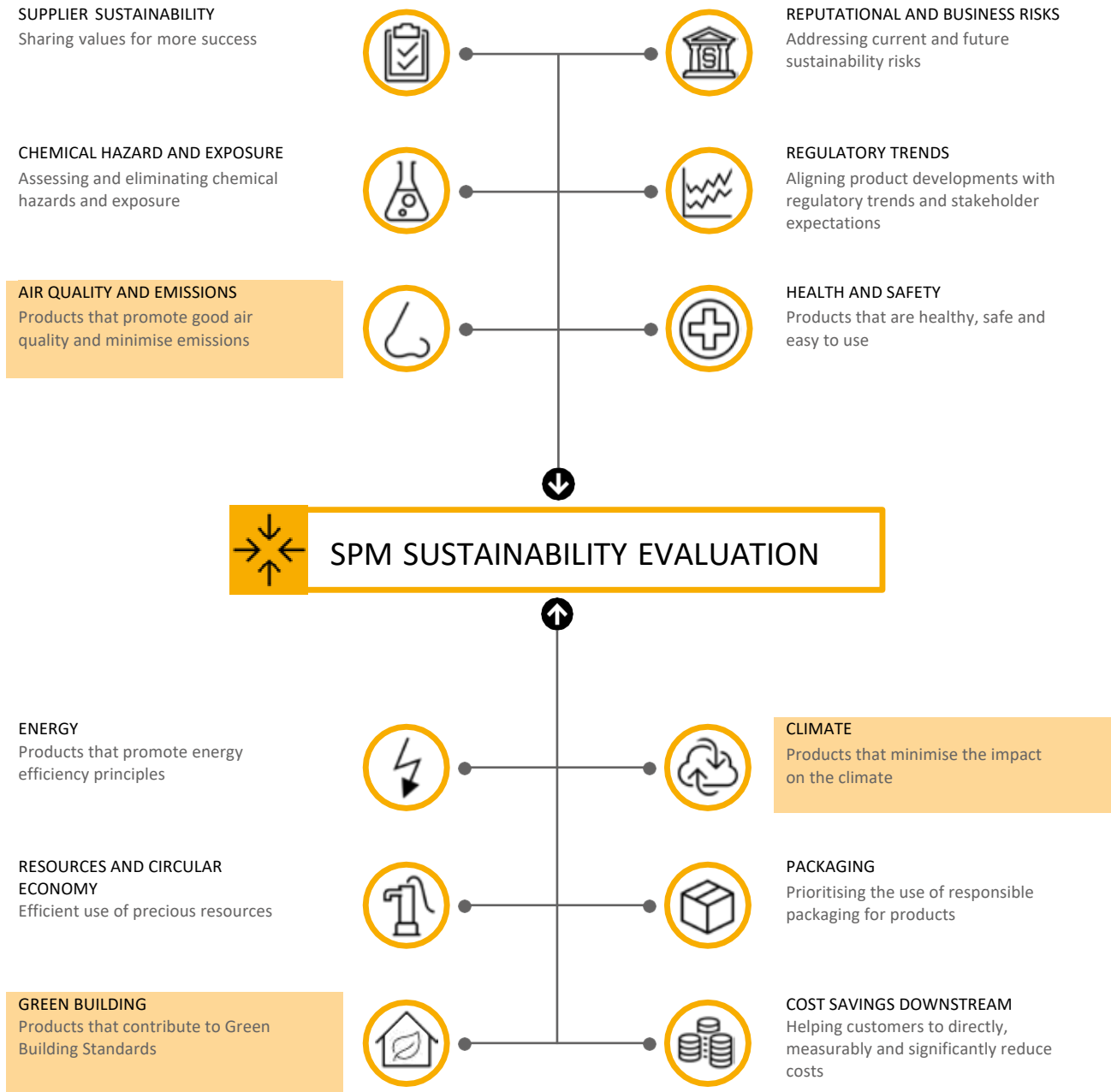


Sika MonoTop®-4012

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.



Sika MonoTop®-4012

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 which combines superior performance with a significant sustainability contribution for customers within its technology and application.

PRODUCT CHARACTERISTICS AND BENEFITS

Sika MonoTop®-4012 is a new high performing and sustainable one-component ready to mix mortar for concrete repair and protection, containing fly ash as a supplementary cement material (SCM). With one 25 kg bag of mortar, Sika customers benefit from:

- approx. 1.5 kg CO₂ savings
- low dust formation during handling
- direct contributions to LEED v4

AIR QUALITY AND EMISSIONS: REDUCED DUST FORMATION

Sika MonoTop®-4012 shows a heavily reduced dust formation (approx. 70%) compared to a reference cementitious concrete repair mortar 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 dustindex-level taken over a period of 30 seconds.

CLIMATE: REDUCED CARBON FOOTPRINT

Sika MonoTop®-4012 has a reduced carbon footprint as a result of the replacement of Portland cement with fly ash within its formulation. When compared to a reference cementitious concrete repair mortar, Sika MonoTop®-4012 shows an approx. 15% reduction in Global Warming Potential (GWP). This corresponds to approx. 1.5 kg of CO₂ saved per 25kg bag of mortar.

- A Life Cycle Assessment (LCA) was conducted in order to generate the GWP figures presented in this factsheet. The goal of the LCA was to compare the formulation of the fly ash-blended product to the formulation of the reference cementitious concrete repair mortar in order to evaluate the impact of the improved formulation.
- LCA is a standardised 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 make use of Sika and industry-standard data.

GREEN BUILDING: MEETS LEED V4 REQUIREMENTS

Sika MonoTop®-4012 is part of the Sika LEED product portfolio and conforms on three LEED v4 credit requirements, thus directly contributing to the attainment of 3 points. More details about the individual credit fulfillment are given in the Sika LEED Attestations.

- LEED v4 MRC 2 (Option 1): Building Product Disclosure and Optimisation – Environmental Product Declarations
→ contribution to the attainment of 1 full point under this credit.
- LEED v4 MRC 3 (Option 2): Building Product Disclosure and Optimisation – Sourcing of Raw Materials
→ contribution to the attainment of 1 full point under this credit.
- LEED v4 MRC 4 (Option 2): Building Product Disclosure and Optimisation –Material Ingredients
→ contribution to the attainment of 1 full point under this credit.

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.