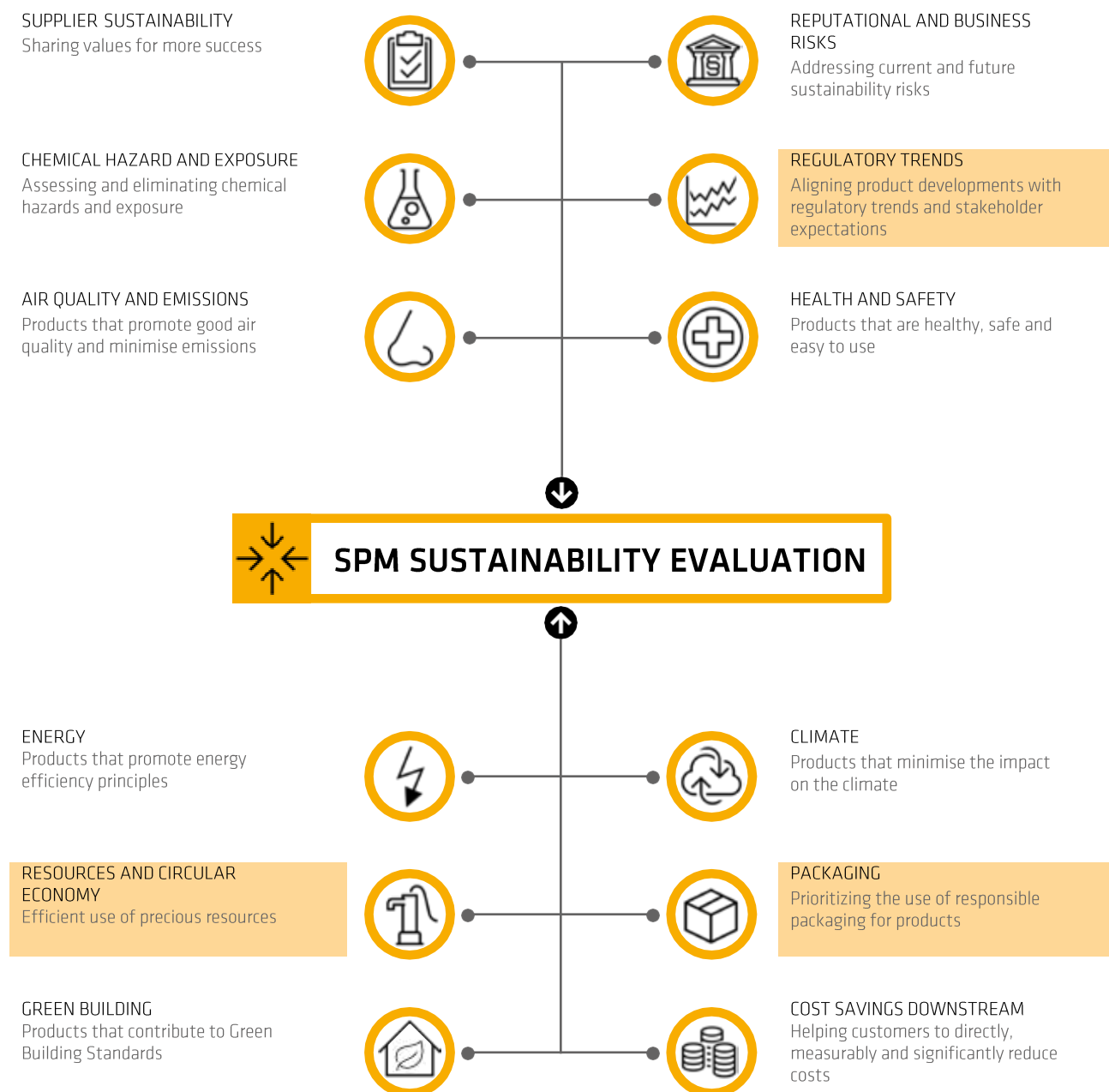


Sikaflex®-554 PowerCure

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.



Sikaflex®-554 PowerCure

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

PRODUCT CHARACTERISTICS AND BENEFITS

Sikaflex®-554 PowerCure is an accelerated cure elastic structural assembly adhesive. It is based on Sika's silane terminated technology and is the first of its kind in environmentally friendly PowerCure packaging. PowerCure is a unique solution for packaging and dispensing fast-cure adhesives based on Sikaflex® Booster technology. The Sikaflex®-554 is also available as a slower curing single component, as well as the Sikaflex®-554 Booster for accelerated curing out of bulk packaging*.

With Sikaflex®-554 PowerCure, customers benefit from:

- High extrusion rates and faster working process: by the combination of PowerCure dispensing, dynamic mixing, and adhesive viscosity
- Excellent primerless adhesion to a variety of materials combined with good weathering resistivity
- Built on the modular approach of Sikaflex® Booster adhesives: 1C, PowerCure and bulk-dispensed booster solutions resulting in the same final material performance regardless of moisture or accelerated curing.

REGULATORY TRENDS: MEETS UNIFE AND SNCF HEALTH AND SAFETY REQUIREMENTS

Sikaflex®-554 PowerCure is formulated to be free of potentially critical substances as per the unife (Union des Industries Ferroviaires Européennes) and SNCF substance lists. In particular, Sikaflex®-554 PowerCure is free of diisocyanates and phthalate-based plasticizers.

- Complies with the unife and SNCF critical substance list

RESOURCES AND CIRCULAR ECONOMY: MORE THAN 60% LESS PACKAGING WASTE

Sika's PowerCure dispensing and packaging solution is based on the idea of making use of two-component adhesives easy and reducing the packaging waste to a minimum. It is built around the well-established foil sausage packaging from the one-component world, combined with dynamic mixing for higher throughput and its own battery-powered, handheld dispenser.

- More than 60% less packaging waste compared with alternative materials in dual plastic cartridges

PACKAGING: REDUCED CARBON FOOTPRINT

Sika's PowerCure dispensing and packaging solution is based on materials with a 60% lower CO₂ footprint than conventional packaging solutions used for fast-cure, two-component adhesives. A Life Cycle Assessment (LCA) was conducted in order to generate the GWP figures presented in this fact sheet.

- About 60% lower CO₂ Footprint of the waste after application (per Liter of adhesive dispensed)

The goal of the LCA was to compare the GWP of the packaging solution and remaining material in the packaging after application. As reference product Sikaflex®-953 L30 in dual cartridge was chosen, and the assessment included the remaining material in the mixer of both systems. 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 use the CML 2001 impact assessment methodology. Sika LCAs make use of Sika and industry-standard data.

*Since the packaging contributed significantly to the overall picture, this sustainability assessment is valid for the Sikaflex®-554 PowerCure only.

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.