

SUSTAINABILITY FACT SHEET

Sika ViscoFlow®-21 AU Impact

Sustainability Portfolio Management (SPM) is the methodology 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.

SUPPLIER SUSTAINABILITY

Sharing values for more success



REPUTATIONAL AND BUSINESS RISKS

Addressing current and future sustainability risks

CHEMICAL HAZARD AND EXPOSURE

Assessing and eliminating chemical hazards and exposure



REGULATORY TRENDS

Aligning product developments with regulatory trends and stakeholder expectations

AIR QUALITY AND EMISSIONS

Products that promote good air quality and minimise emissions



HEALTH AND SAFETY

Products that are healthy, safe and easy to use



SPM SUSTAINABILITY EVALUATION



ENERGY

Products that promote energy efficiency principles



CLIMATE

Products that minimise the impact on the climate

RESOURCES AND CIRCULARITY

Efficient use of precious resources



PACKAGING

Prioritizing the use of responsible packaging for products

GREEN BUILDING

Products that contribute to Green Building Standards



COST SAVINGS DOWNSTREAM

Helping customers to directly, measurably and significantly reduce costs

SUSTAINABILITY FACT SHEET

Sika ViscoFlow®-21 AU Impact

SUSTAINABLY IMPACTFUL

The perfect balance of optimized performance and sustainability engineered for a durable and more responsible future.

Sika's Impact products, assessed by the Sika Sustainable Portfolio Management (SPM) methodology, deliver both optimized performance and sustainability benefits. Designed to be fit for purpose, these advanced solutions meet the highest standards in sustainability. Our Sustainability Impact Areas drive progress toward a sustainable future by addressing key priorities: Carbon Emission Reduction, Durability, Circularity, Resource/Material Consumption, Waste Management, Energy Consumption, Health and Safety, and Green Building Contribution.



PRODUCT CHARACTERISTICS AND BENEFITS

Sika ViscoFlow®-21 AU Impact is an innovative polycarboxylate polymer technology which enhances workability and slump retention of fresh concrete. By incorporating Sika ViscoFlow®-21 AU Impact into concrete mix, customers not only achieve superior workability but also contribute to climate change mitigation by reducing the product's carbon footprint. Sika ViscoFlow®-21 AU Impact admixture enables better optimisation of concrete mix designs, leading to significant cost savings and minimising the need for re-tempering. This efficiency not only enhances productivity for concrete producers but also supports sustainable construction practices by reducing material waste caused by inadequate slump retention.

- **CLIMATE:** 22% reduced carbon footprint of the raw materials in comparison to internal reference product.

CLIMATE: REDUCED CARBON FOOTPRINT

The carbon footprint of Sika ViscoFlow®-21 AU Impact is 22% lower than the carbon footprint of the internal reference water reducing and slump retaining admixture¹. The reduction in the carbon footprint of Sika ViscoFlow®-21 AU Impact was achieved by introducing more efficient formulation.

Further details about the calculation:

- A Carbon Footprint Study was conducted to generate the carbon footprint reductions presented in this factsheet based on ISO 14044.
- The reduction in carbon footprint presented is based on IPCC AR6 GWP100 incl. biogenic CO₂ as well as land use and land use change (luluc).
- The goal of the CF study was to compare the raw material composition of Sika ViscoFlow®-21 AU Impact, produced in admixture production sites in Australia with the internal reference to evaluate the carbon footprint reduction of the improved formulation. The comparison was calculated on a per kg basis as the two formulations are functionally equivalent.
- The life cycle stage included in the calculation is the production of raw materials (cradle to raw material) because 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 CF 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 Carbon Footprint are good².

¹ The internal reference 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 CF study has not been independently reviewed for conformance with ISO 14044. The calculation has been conducted involving Sika's R&D and LCA specialists under consideration of Sika's internal quality assurance processes.

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.