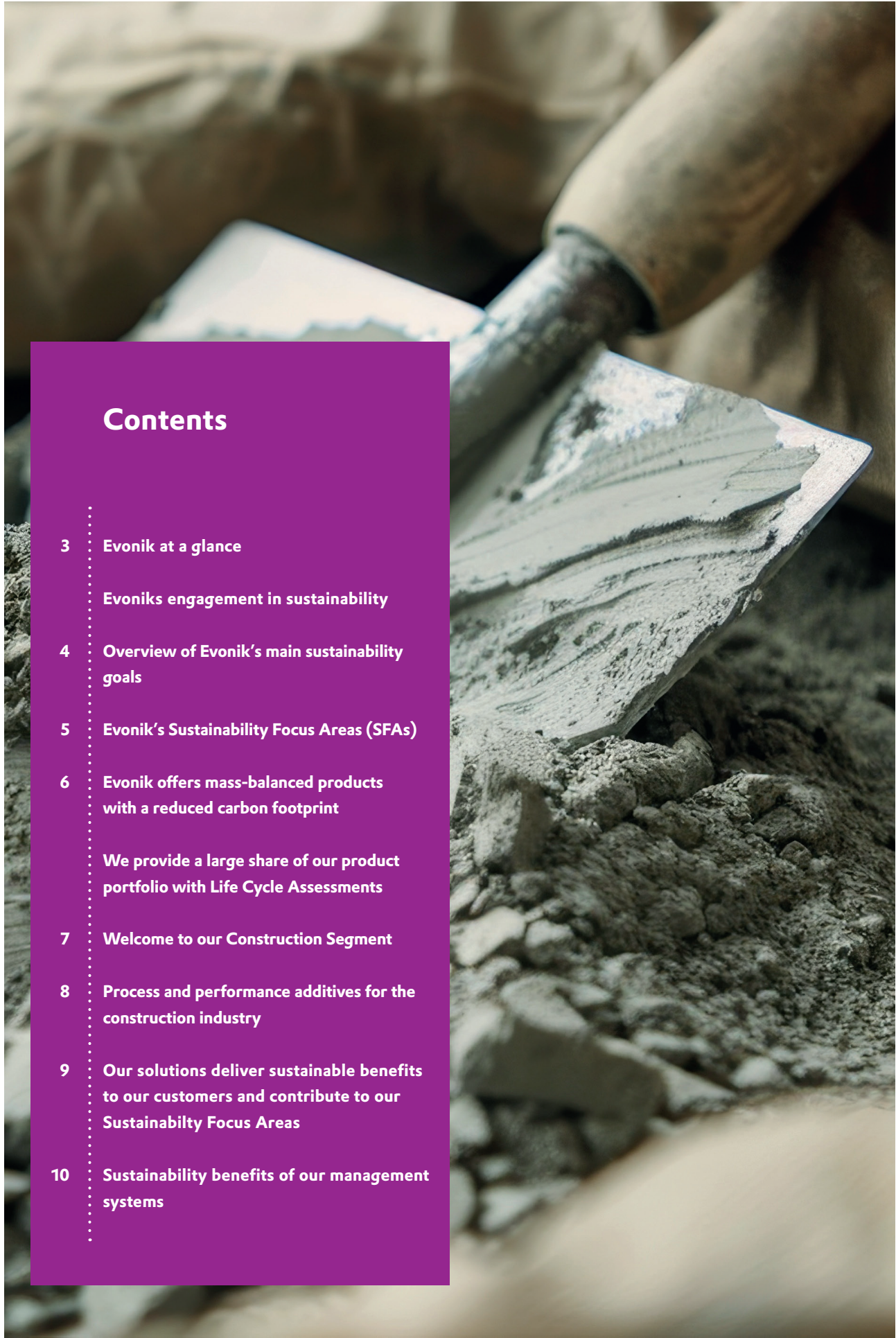




# Building a Sustainable Future

ADDITIVES FOR THE  
CONSTRUCTION INDUSTRY





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# Evonik at a glance

Evonik is one of the world's leading chemicals companies, with operations in more than 100 countries. We do not make car tires or mattresses, tablets or animal feed. Yet there is a bit of Evonik in all these products – and many more as well. Often it is the small amounts of our products that make a real difference.

Because Evonik makes tires more fuel-efficient, mattresses more comfortable, tablets more effective, and animal feed more healthy. We go far beyond chemistry to create innovative, profitable and sustainable solutions for customers. Around 32,000 employees work together for a common purpose: We want to improve life, today and tomorrow.



## EVONIK'S ENGAGEMENT IN SUSTAINABILITY

At Evonik, we have set ourselves the goal of creating a better life for current and future generations. This is exemplified by projects in cooperation with renowned partners from the business world. The agreement of a Power Purchasing Agreement with EnBW for the purchase of green electricity from the He Dreiht offshore wind farm, as well as the commissioning of a pilot electrolysis project, which was devel-

oped in cooperation with Siemens Energy, illustrate our commitment to green energy. Furthermore, Evonik is a founding member of the chemical industry initiative "Together for Sustainability" and was awarded a platinum rating for its achievements in sustainability by Rating agency EcoVadis. Our commitment to sustainability is also reflected in our ambitious goals.



# OVERVIEW OF EVONIK'S MAIN SUSTAINABILITY GOALS

## CLIMATE TARGET<sup>1,2</sup> (CO<sub>2</sub>)



SCIENCE  
BASED  
TARGETS

**SCOPES 1+2**  
(well below 2 degrees)

**-25%**

**SCOPE 3**  
(2 degrees)

**-11%**

## PORTFOLIO TARGET<sup>2</sup>



**NEXT GEN SOLUTIONS<sup>4</sup>**  
(Leaders + Drivers)

**>50%**

**CHALLENGED  
PRODUCTS<sup>5</sup>**

**<5%**

## WATER TARGET<sup>1,2</sup>

### GLOBAL WATER MANAGEMENT SOLUTION

- Reduction of freshwater consumption per ton by 3%
- Site-specific action plans potentially exposed to water stress

## WASTE TARGET<sup>1,2</sup>

- Specific reduction per tonne of product of production waste by 10%

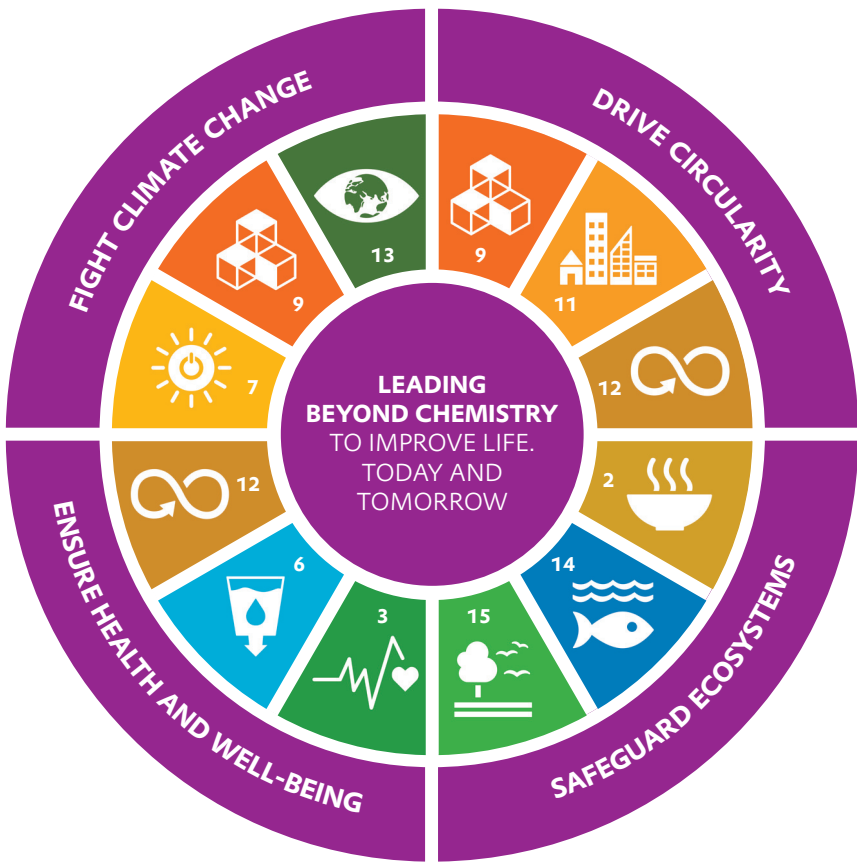
## ENERGY TARGET<sup>3</sup>

- Reduction of absolute and relative energy consumption by 5%

<sup>1</sup> Reference base: 2021 | <sup>2</sup> Target year: 2030 | <sup>3</sup> Reference base: 2020, Target year: 2025 | <sup>4</sup> Products with a strong sustainability profile that is above or well above the market reference level | <sup>5</sup> Products that do not satisfactorily apply the standards for sustainable business set by Evonik's stakeholders and our impact

# EVONIK'S SUSTAINABILITY FOCUS AREAS (SFAS)

Evonik's contributions to a sustainable transformation are bundled into four Sustainability Focus Areas (SFAs): fight climate change, drive circularity, safeguard ecosystems, and ensure health & wellbeing. That sharpens our businesses' awareness of the most important sustainability requirements in their markets and facilitates dialogue with customers on these aspects. Each SFA addresses specific sustainability requirements and describes our contribution to the Sustainable Development Goals (SDGs). In this context, we examine both positive and negative impacts of Evonik's business activities.





# EVONIK OFFERS MASS-BALANCED PRODUCTS WITH A REDUCED CARBON FOOTPRINT

Evonik and its business line Interface & Performance offer a mass balance approach for their products. Mass balance involves mixing virgin fossil and renewable or circular raw materials into existing systems and production processes. The renewable amount is then allocated mathematically to specific products and is certified by a neutral third party to verify the use of renewable or circular resources across all stages of production. It allows for large-scale production,

instant CO<sub>2</sub> reduction in existing plants and enables cost-effective solutions that meet more stringent environmental and sustainability targets. Based on the mass balance approach, Evonik has attained the International Sustainability and Carbon Certification (ISCC) PLUS for its chemicals production at various sites. Reach out to our representatives for more information about mass balanced products in our portfolio.

# WE PROVIDE A LARGE SHARE OF OUR PRODUCT PORTFOLIO WITH LIFE CYCLE ASSESSMENTS

Life Cycle Assessment (LCA) is a methodical analysis of the environmental impact of a product or service, aimed at making sustainability quantifiable. By employing life cycle assessment methods, key metrics such as carbon and water footprints are generated to illustrate the environmental impacts of our business activities. Through years of experience, we are able to provide our customers with LCA data on many of our products. In the construction segment, we offer LCAs for 85% of our products that meet all common

industry standards. In 2024, the methodology practiced by Evonik's Life Cycle Management team in conducting product LCAs has been verified and approved by TÜV Rheinland Energy & Environment GmbH, the leading German testing service provider for safety and quality assurance through certification and technical services. For further information and life cycle assessment data, please contact your business partner at Evonik.

# WELCOME TO OUR CONSTRUCTION SEGMENT

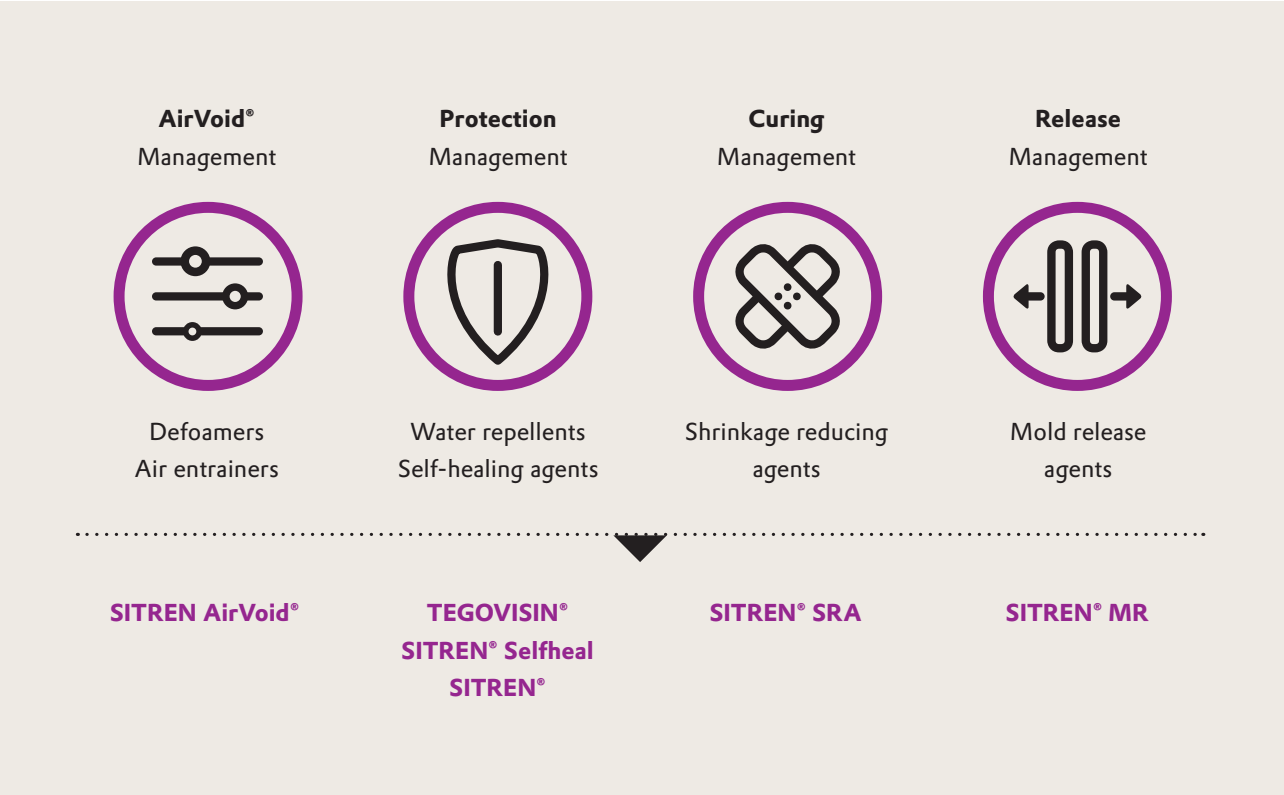
The Construction Segment is part of Evonik's Interface & Performance business line, which strives to innovate, shape trends, and continuously improve and develop its product portfolio. Interface & Performance invests in research and development to maintain and

extend its advantage in key technologies. Investment in our manufacturing sites ensures global security of supply. To highlight our commitment to sustainability, our sites in Essen, Hopewell and Pandino are supplied with 100% green electricity since 2025.





# PROCESS AND PERFORMANCE ADDITIVES FOR THE CONSTRUCTION INDUSTRY



## OUR MANAGEMENT SYSTEMS AND THEIR ASSOCIATED ACTIVITIES AND PRODUCTS ADDRESS THE FOLLOWING APPLICATION AREAS:










- **Admixtures**, liquid additives for the concrete admixture industry
- **Drymix**, powder additives for the drymix mortar industry
- **Industrial building materials**, additives for industries that supply building materials (e.g.insulating materials, fillers, ...)



We understand our customers’ challenges, including their manufacturing processes and the requirements their products have to meet. At the same time, we are dedicated to protecting the environment, and to sustainable socioeco-  
nomic development. As part of the sustainability assessment of our products, we evaluate both the footprint and the handprint of our products. We define handprint as positive sustainability impacts that Evonik products enable along

the value chain compared with market standards, especially in customer applications. This is another way in which our products contribute to achieving the SDGs. In the following pages, we present how our management systems and activities in the construction segment contribute to our four Sustainability Focus Areas and to the achievement of the SDGs.

## OUR SOLUTIONS DELIVER SUSTAINABLE BENEFITS TO OUR CUSTOMERS AND CONTRIBUTE TO OUR SUSTAINABILTY FOCUS AREAS

SUSTAINABILITY BENEFIT	DURABILITY AND WASTE REDUCTION	Water repellents, defoamers, air entrainers, shrinkage reducers, self-healing agents <sup>1</sup> , wetting and dispersing <sup>1</sup> agents	<b>DRIVE CIRCULARITY</b>   
	VOC REDUCTION	Shrinkage reducers compliant with EMICODE EC1+ products	<b>SAFEGUARD ECOSYSTEMS</b>  
	REDUCED IMPACT ON ENVIRONMENT	Water repellents with low water toxicity	<b>ENSURE HEALTH &amp; WELLBEING</b>   
	SAFE USE	No tox defoamer <sup>1</sup>	<b>FIGHT CLIMATE CHANGE</b>  
	ENABLER FOR LOW CARBON SOLUTIONS	Wetting and dispersing <sup>1</sup> agents for supplementary cement materials	
	LABEL COMPLIANCE	Support for customer, data transparency	

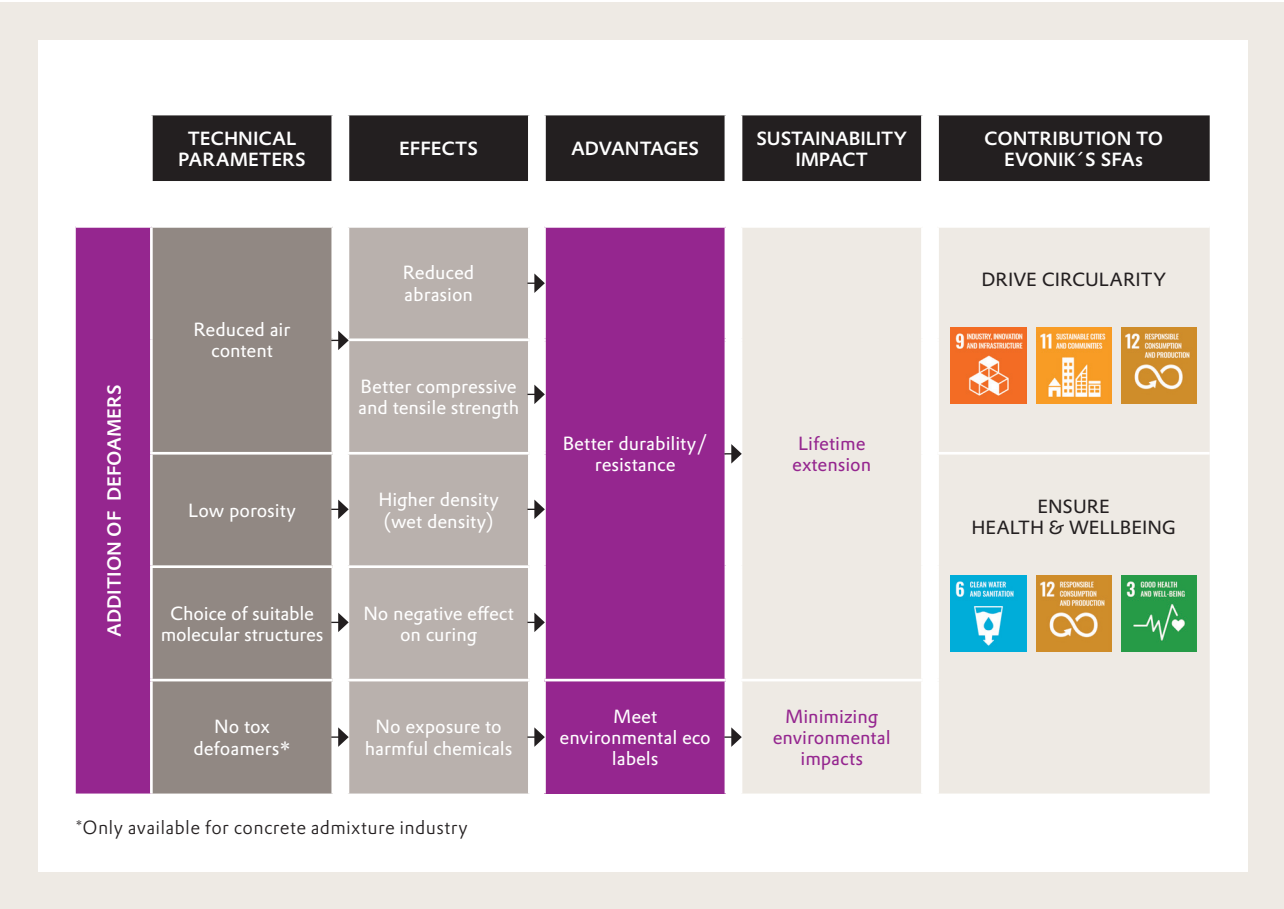
<sup>1</sup> Only available for concrete admixture industry



SUSTAINABILITY BENEFITS OF OUR MANAGEMENT SYSTEMS

DEFOAMERS

Our defoamers enhance sustainability in both the drymix and concrete admixture industries by reducing air voids, thereby increasing density and mechanical strength while minimizing material waste. This leads to higher quality, more durable products with improved abrasion resistance, all while ensuring efficient use of resources without compromising cement hydration or early strength.

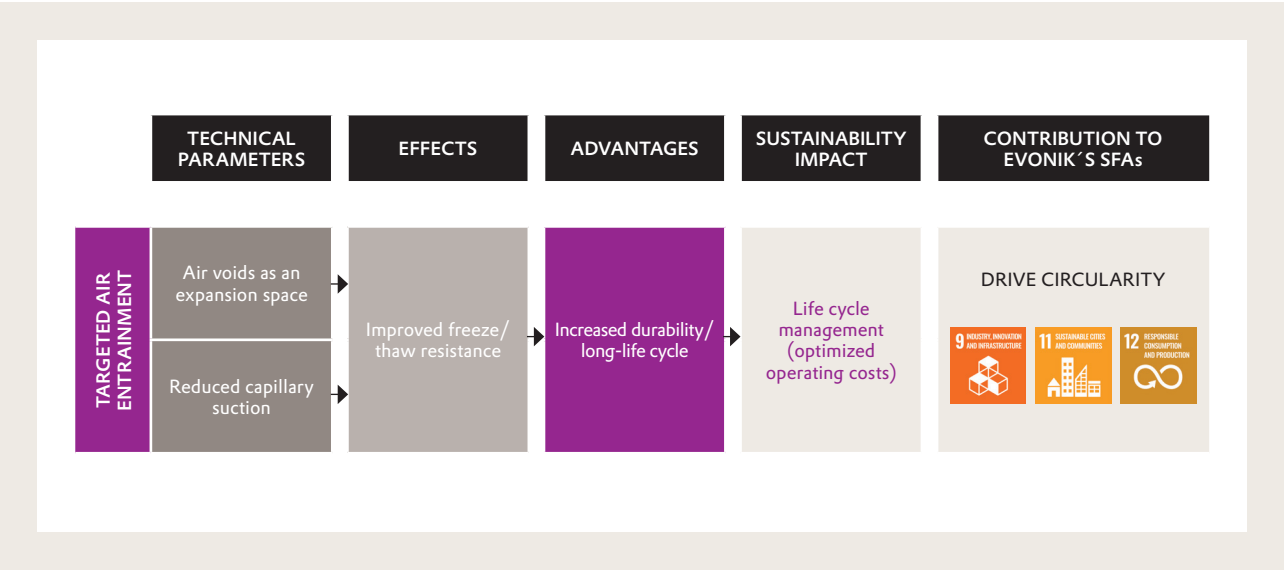


Our **SITREN AirVoid® 330 and 332** offer significant sustainability advantages by enabling the use of sustainable raw materials, such as composite cements and low-quality aggregates, while maintaining a non-hazardous classification. Their excellent stability over time contributes to durability and reduced maintenance.

**SITREN AirVoid® 370** stands out for its very low contribution to volatile organic compounds (VOCs), meeting the most stringent emission requirements in the industry. This makes it an excellent choice for environmentally conscious applications, promoting better indoor air quality and sustainability.

AIR ENTRAINERS

Air entrainers from the SITREN AirVoid® range improve concrete durability by forming stable, uniformly distributed air voids that reduce water and salt penetration, thereby minimizing damage from frost and de-icing salts. These additives improve workability and allow for efficient lightweight construction, ensuring long-lasting building performance.



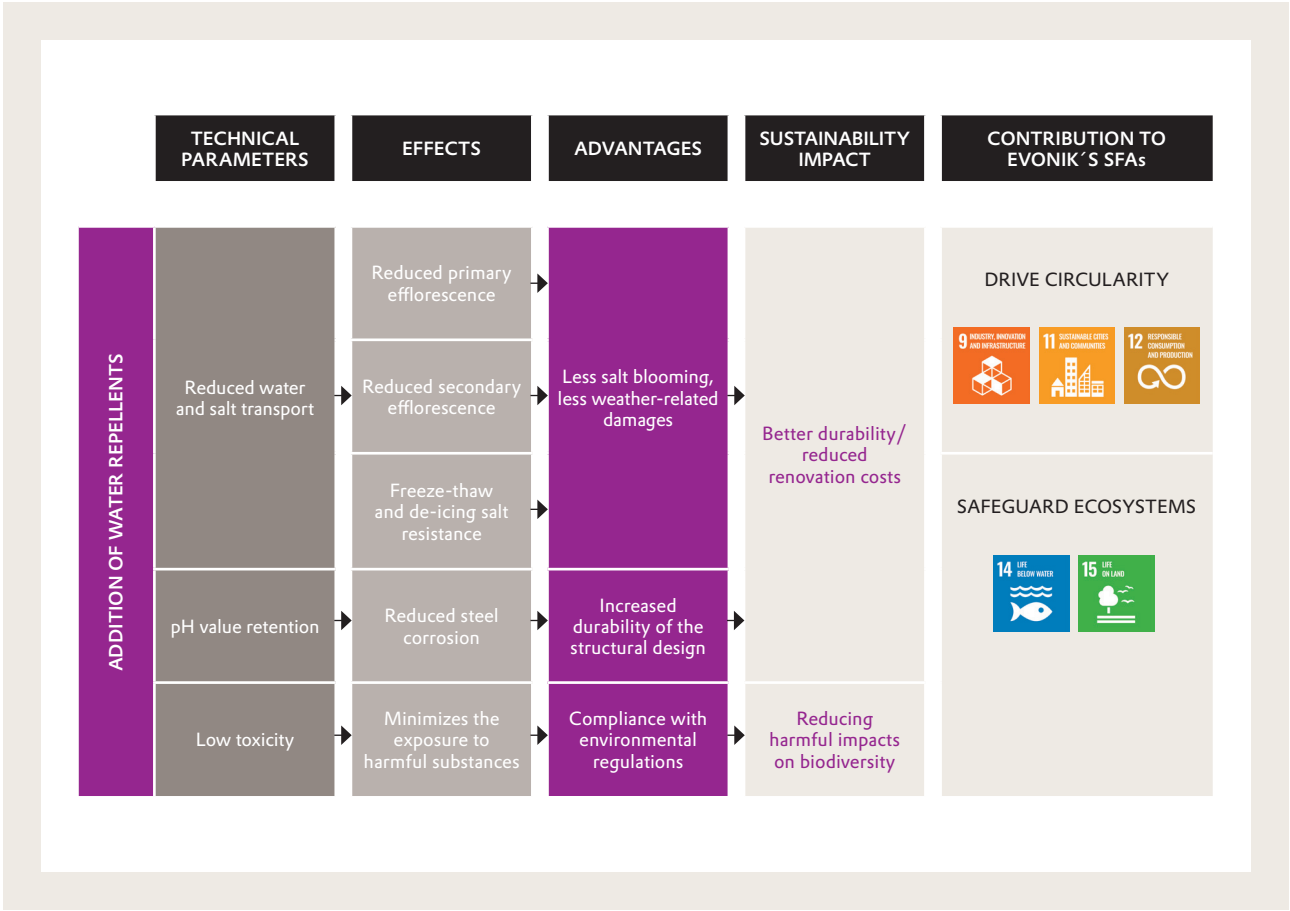
**SITREN AirVoid® 601** offers significant sustainability advantages by reducing cement usage and greenhouse gas emissions through innovative binder solutions, while also facilitating the use of inorganic natural carriers. Additionally, it enables low VOC formulations for indoor applications, surpassing traditional glycol-based alternatives.

**SITREN AirVoid® 651** is a highly effective air entrainer for mineral plasters, masonry and base coat mortars. Its protective properties help to increase the durability of mortars.



WATER REPELLENTS

Our water repellents enhance sustainability by significantly reducing water absorption and pollutant infiltration, lowering cleaning requirements and extending the lifespan of treated surfaces. Our silicone-based and alkoxy silane/siloxane water repellents maintain water vapor permeability while providing durable protection for buildings and roads, improving hygiene and aesthetics.

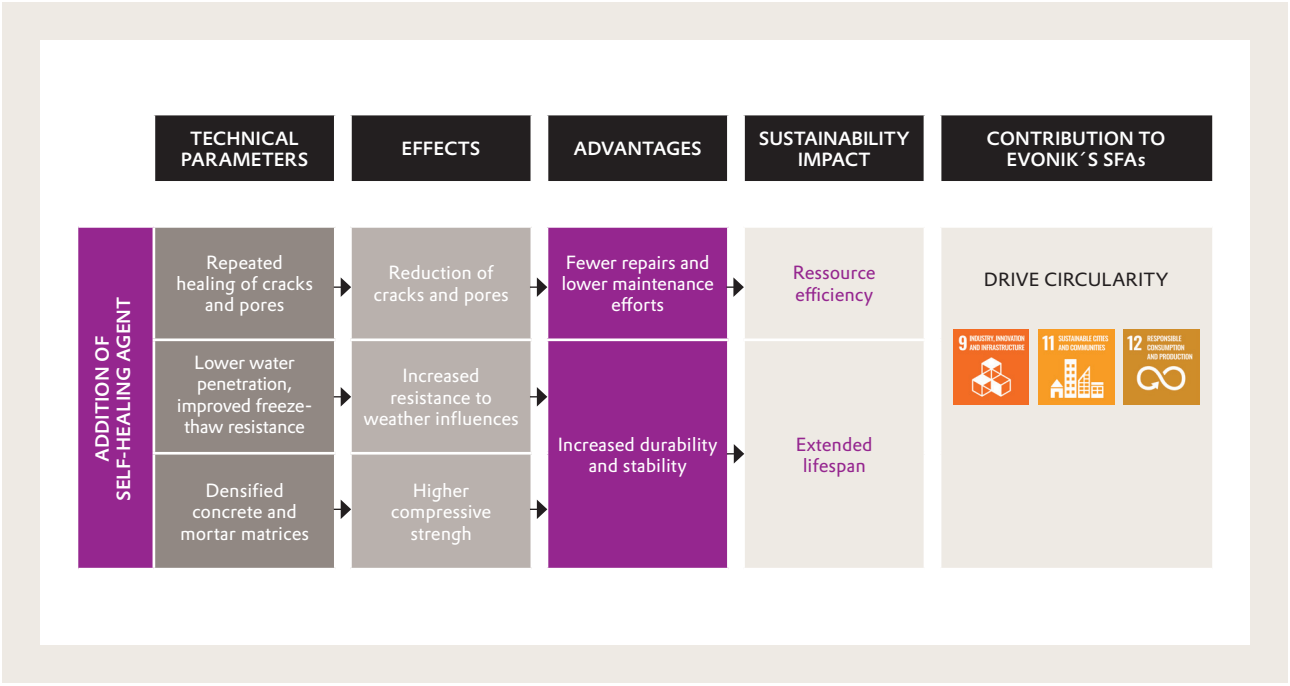


Our **TEGOSIVIN® HE 328** significantly reduces water absorption and provides outstanding beading properties. This guarantees a significant improvement in durability, which in turn leads to lower maintenance costs. **TEGOSIVIN® CA 880** offers reduced primary and secondary efflorescence and minimized corrosion of steel-reinforced concrete. Additionally, its solvent-free and low VOC formulation contributes to a healthier environment.

**TEGOSIVIN® CA 320** is a liquid water repellent for reducing water uptake and to improve water resistance. **SITREN® P 750** delivers outstanding and long-term water-repellent properties that surpass market references. Its low VOC formulation supports sustainable building practices by reducing waste, CO<sub>2</sub> emissions, and resource consumption.

SELF-HEALING AGENTS

Our latest SITREN® Selfheal additives for self-healing concrete combine traditional construction chemistry with advanced biotechnology, utilizing specialized bacteria to seal cracks in concrete prolonging the life span buildings.

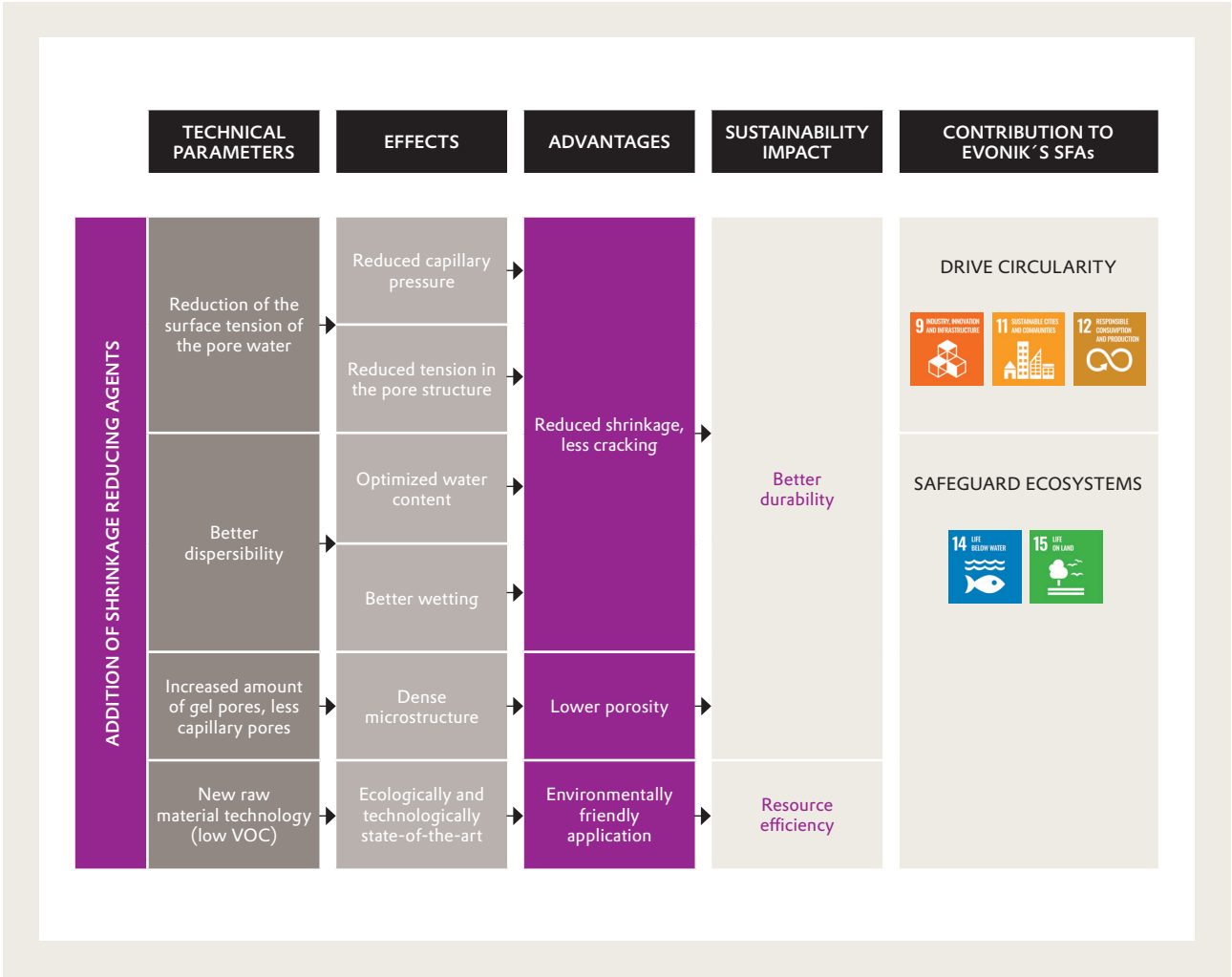


**SITREN® Selfheal 455** is a formulation in powder form based on natural microbes, nutrients, and surface active ingredients, with no exposure to hazardous materials. It enhances sustainability by promoting repeated healing of cracks and pores, resulting in lower water penetration and improved freeze-thaw resistance. Its densified concrete structure increases compressive strength while reducing CO<sub>2</sub> emissions and concrete waste. This innovative product ultimately reduces repair costs and time, supporting a more sustainable approach to construction.



SHRINKAGE REDUCING AGENTS

Evonik's SITREN® shrinkage reducing agents contribute minimally to VOC emissions, complying with stringent eco-label requirements. They prevent cracks in concrete, resulting in less reworking, resource conservation, and extended product life and durability, thus supporting our Sustainability Focus Areas, Safeguard Ecosystems and Drive Circularity.

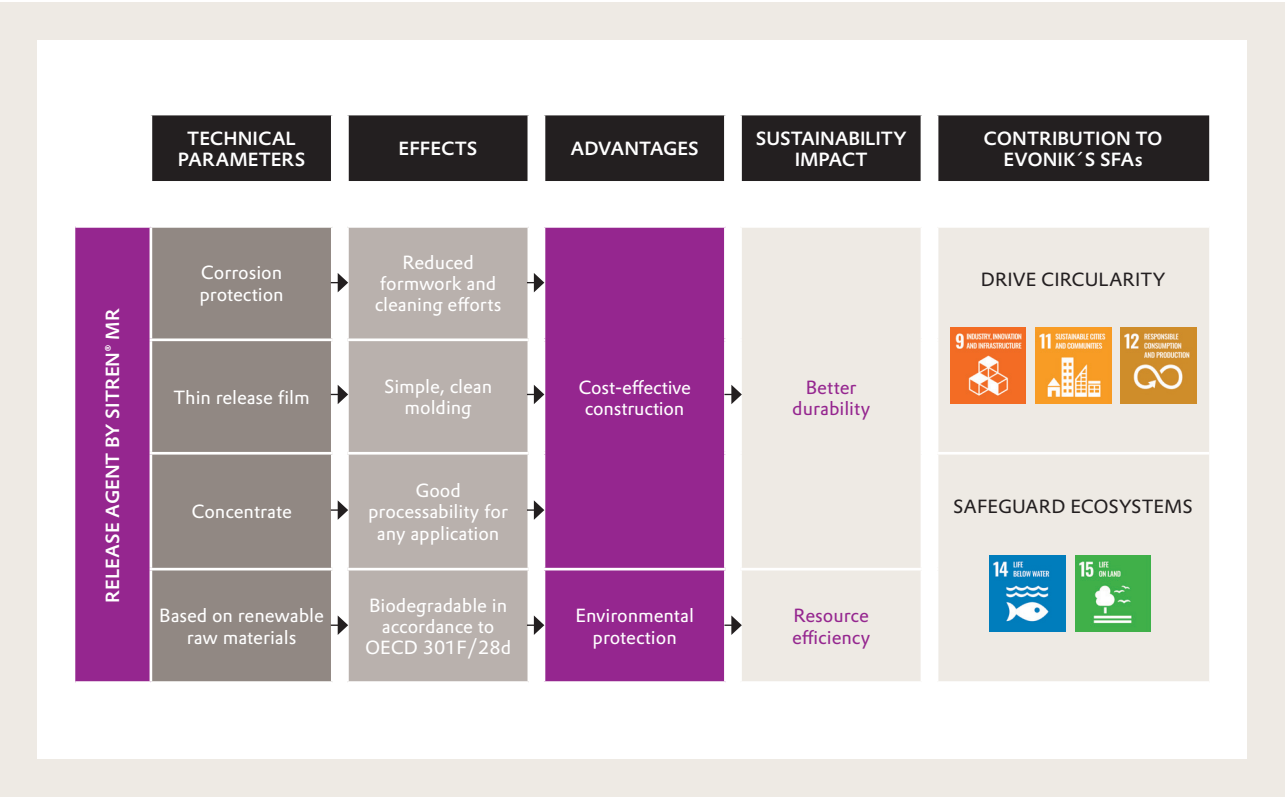


**SITREN® SRA L 201 and 220** are innovative shrinkage-reducing admixtures. These products are designed to significantly minimize both drying and plastic shrinkage in concrete, effectively reducing the risk of cracks, deformation, and debonding thus increasing durability. **SITREN® SRA P 260** is a powder based shrinkage reducing agent based on modified polyethers to prevent cracking of cement based materials.

With **SITREN® SRA P 260**, dry mortars can be formulated to meet the highest requirements for emission levels of building materials, significantly enhancing indoor air quality.

MOLD RELEASE AGENTS

Our environmentally friendly mold release agents exceed all requirements in terms of environmental aspects of modern release agents. Our products are readily biodegradable in accordance with OECD 301 F/28d and offer an environmentally friendly alternative to mineral-oil-based systems. Our solvent-free products set the highest standards in the areas of health protection and work safety.



**SITREN® MR 870** is an emulsion concentrate based on biodegradable oils for the formulation of environmentally friendly mold release emulsions. It reduces the adhesion between concrete and the mold resulting in minimum cleaning efforts and wear to the mold. At the same time surface properties/appearance of the concrete is improved. **SITREN® MR 870** is readily biodegradable according to OECD criteria while showing biological degradability of 95%.



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