



SUSTAINABLY
IMPACTFUL

CONCRETE ADMIXTURE SikaPlast®-82 SCM Impact

WATER REDUCER FOR SCM CONCRETE

BUILDING TRUST



ADMIXTURE TECHNOLOGY ENGINEERED FOR SUSTAINABLE CONCRETE MIXES

SikaPlast®-82 SCM Impact is a cutting edge water-reducing admixture specially designed for concrete with high volumes of supplementary material.

As ready-mix concrete producers shift towards more sustainable concrete mixes, they face the challenge of requiring different types of admixtures to meet performance demands. Some of the challenges are achieving a softness of mix, reaching fast early strength and slump retention, these performance requirements can be quite problematic when working with high levels of supplementary cementitious materials.

In readiness, Sika has engineered a high-performance water-reducing admixture incorporating a tailored blend of advanced polymers, specifically formulated to address the demands of sustainable concrete mix designs. This solution enables ready-mix concrete producers to achieve superior workability, durability, and strength development, even at ultra-low water-to-binder ratios, SikaPlast®-82 SCM Impact supporting a seamless transition to next-generation concrete technologies. SikaPlast®-82 SCM Impact Patent Pending.

RESIDENTIAL, COMMERCIAL, INDUSTRIAL AND INFRASTRUCTURE CONSTRUCTION PROJECTS:

- House slabs, garages, driveways and footpaths
- Rail, roads, bridges, tunnels and airports
- Car parks, factories and warehouses
- Water infrastructure

CONCRETE MIXES:

- Concrete with 70% replacement of cement with SCM
- High volume of slag and/or fly ash
- Concrete with manufactured sand

CONCRETE APPLICATIONS:

- Self-compacting
- Precast
- Pumped and sprayed
- Reinforced concrete

PACKAGING:

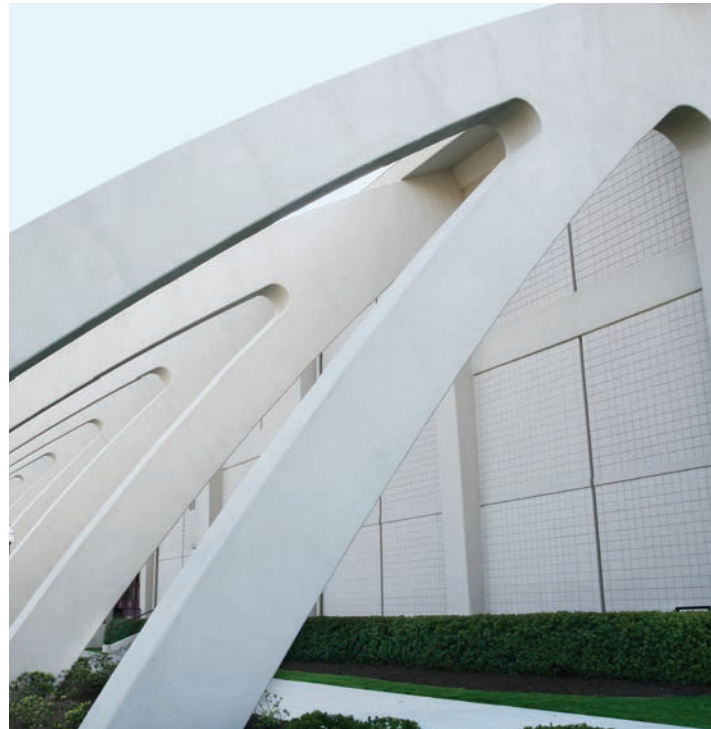
Bulk deliveries and 1000 litre IBC



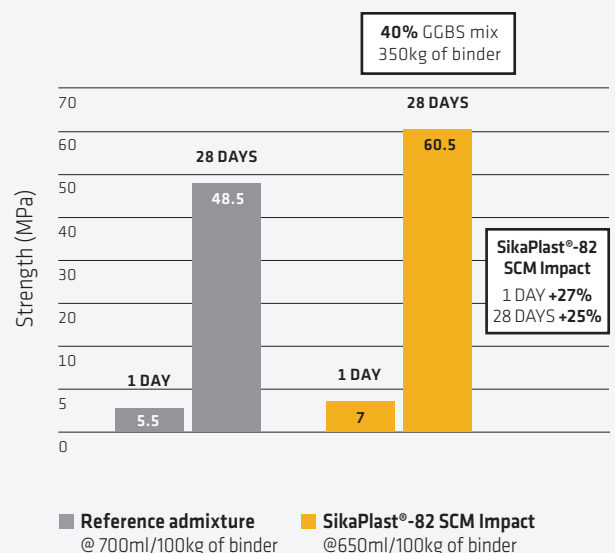
Technical Data Sheet

IMPROVED PERFORMANCE:

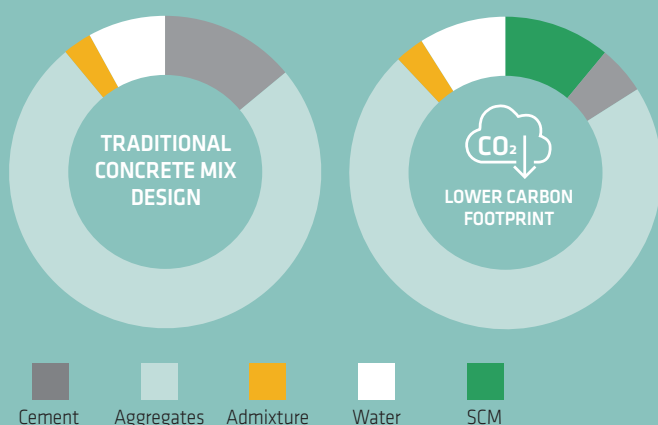
- Enhanced rheological properties allowing for better pumpability
- Higher water reduction increasing compressive strength and durability
- Improved slump retention ensuring prolonged workability during placement



COMPRESSIVE STRENGTH (MPa)



ENABLES UP TO 70% CEMENT REPLACEMENT WITH SCM



Fact Sheet

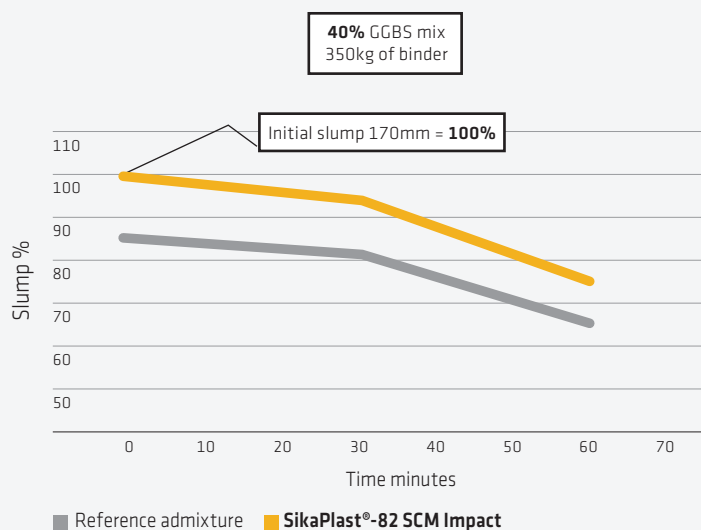
SUSTAINABILITY IMPACTFUL:

- Supports a low-carbon economy
- 25% reduced carbon footprint compared to internal reference concrete water reducer
- Supports reducing the consumption of Portland Cement for concrete by 70%

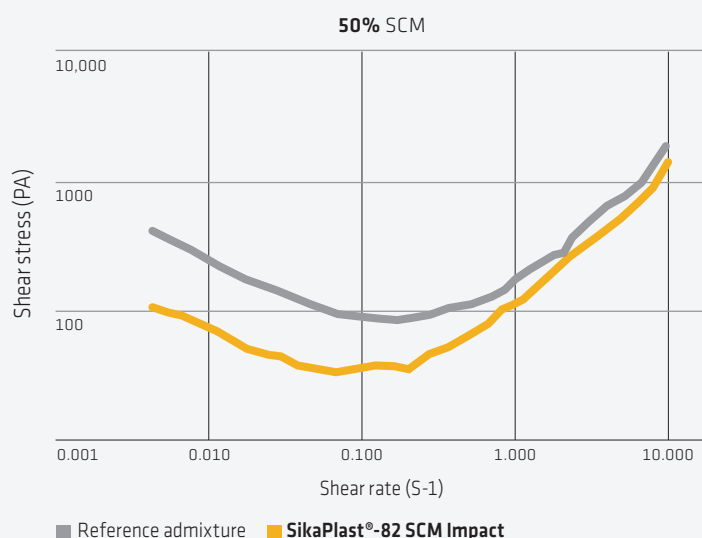
PRODUCTS TO FURTHER BOOST YOUR CONCRETE PERFORMANCE

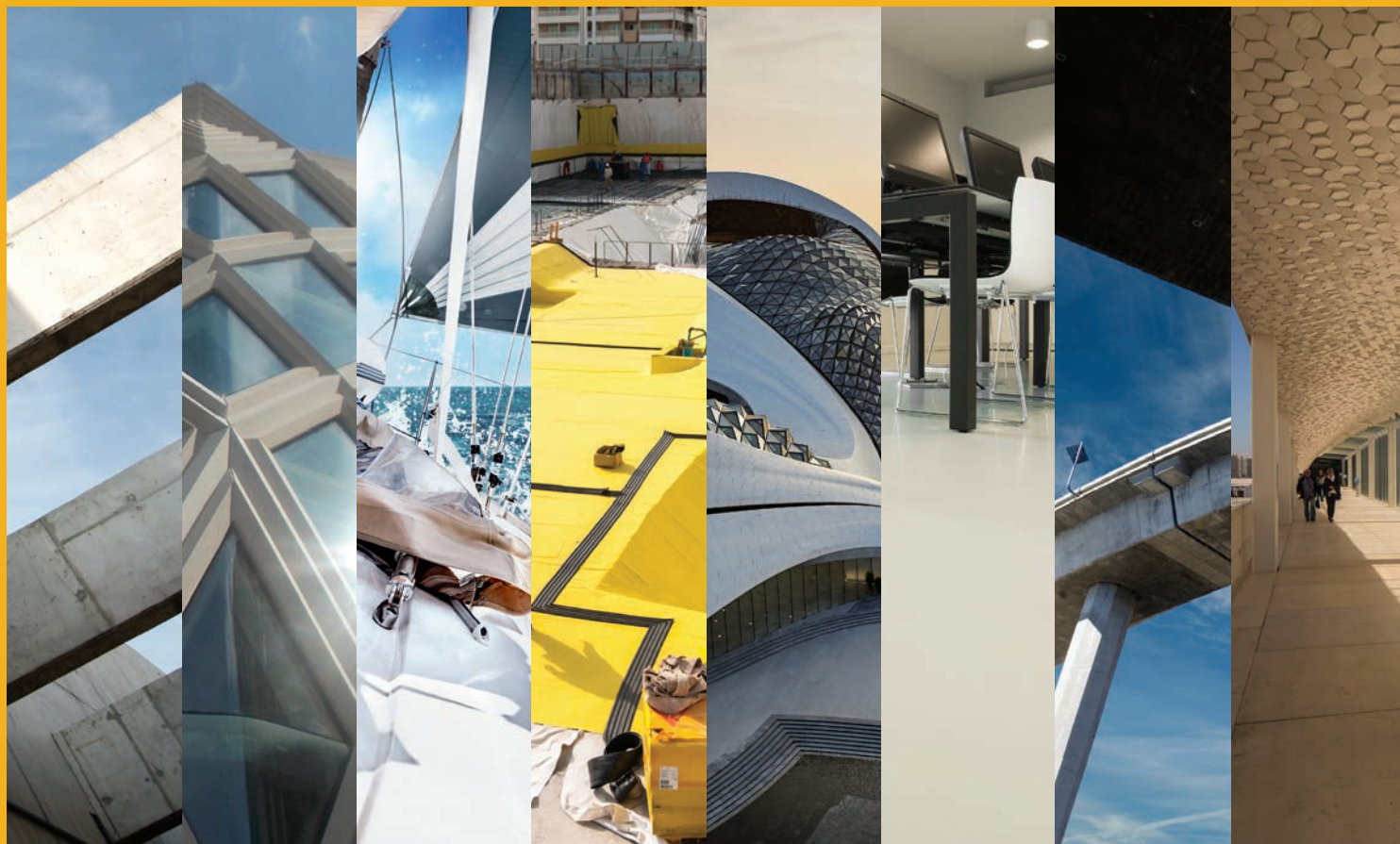
PRODUCT NAME	PRODUCT TYPE	PRODUCT USE
Sika® Colorflo	Liquid pigment	Coloured concrete blocks, floors and precast elements
Sika® Separol®	Mould release agent	Formwork release for superior off-form finish
Sika® VicoFlow®	Admixture for extended slump retention	High performance concrete, piling mixes and self compacting concrete
SikaControl® WT	Admixture for water-tight concrete	Underground construction, dam
SikaTard®	Retarder	Piling and D-wall mixes, shotcrete
Sika® Stabilizer RCR	Powdered admixture for returned concrete treatment	Returned concrete treatment to obtain granulated aggregates
Sika® ViscoCrete	High-range water reducing admixture	High strength and durability concrete
SikaFiber® Force PP	Structure macrofibre	Shotcrete, footpath and slab

SLUMP RETENTION



RHEOLOGY - SHEAR STRESS





WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, flooring as well as roofing and waterproofing systems.

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