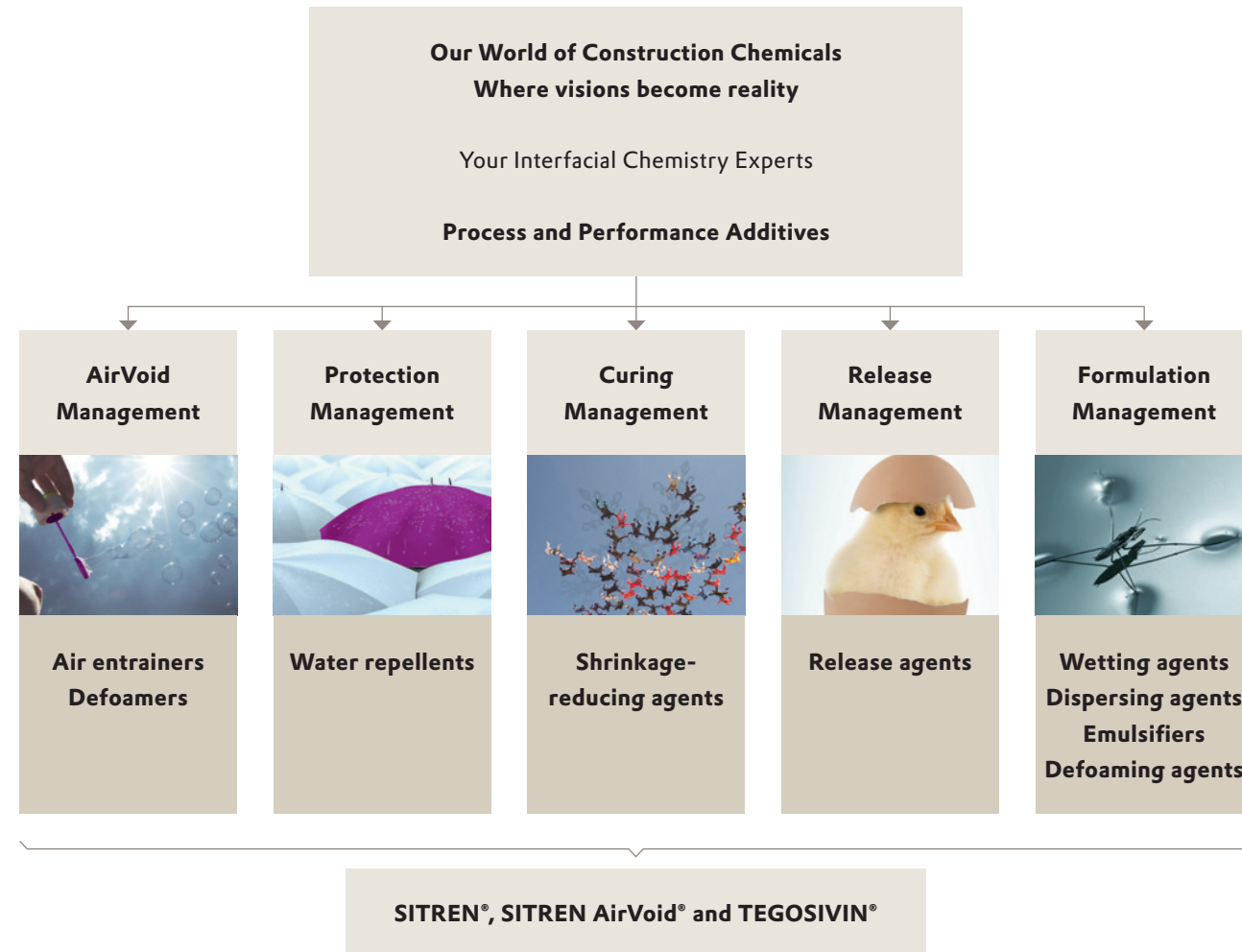


At a glance



All five management systems and their associated activities and products address the three following areas of application:

- **Drymix**, additives for the dry mortar industry
- **Admixtures**, additives for concrete
- **Industrial building materials**, additives for e.g. insulating materials and fillers

We understand our customers' challenges, including the requirements their products have to meet, and their manufacturing processes. In addition, we offer a broad product portfolio, extensive experience and specialized technical expertise, plus our in-depth knowledge of applications and markets.

At the same time, we are dedicated to protecting the environment, and to sustainable socioeconomic development. With more than thirty years' experience in product design, we continuously improve and evolve our products. **As a result, our solutions set new standards in terms of efficiency and performance.**



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10/2018 Inv. no.16-18

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Mixed to resist. Product Portfolio for Concrete Admixtures

INCLUDING APPLICATION

SITREN®
SITREN AirVoid®
TEGOSIVIN®



 **EVONIK**
POWER TO CREATE

 **EVONIK**
POWER TO CREATE

	AIR VOID MANAGEMENT							
	DEFOAMER							
	SITREN AirVoid® 301	SITREN AirVoid® 305	SITREN AirVoid® 307	SITREN AirVoid® 312	SITREN AirVoid® 320	SITREN AirVoid® 321	SITREN AirVoid® 322	SITREN AirVoid® 325
CHEMICAL NATURE	NONIONIC SURFACTANT	NONIONIC SURFACTANT	EMULSION OF ORGANOMODIFIED SILOXANES	NONIONIC SURFACTANT	NONIONIC SURFACTANT	NONIONIC SURFACTANT	NONIONIC SURFACTANT	NONIONIC SURFACTANT
SOLID CONTEN	100%	100%	20%	100%	100%	100%	100%	100%
DOSAGE	0.1–1.0% by weight of superplasticizer	0.1–1.0% by weight of superplasticizer	0.1–1.0% by weight of superplasticizer	0.1–1.0% by weight of superplasticizer	0.1–1.0% by weight of superplasticizer	0.1–1.0% by weight of superplasticizer	0.1–1.0% by weight of superplasticizer	0.1–1.0% by weight of superplasticizer
PRODUCT PROPERTIES					+ suitable ++ good +++ very good ++++ optimal +++++ excellent			
Air entrainment								
Workability	++	++	+	++	++	++	++	+
Defoaming properties	+++	++++	++	+++	+++	+++	+++	++++
Compatibility	++++	++	++	++++	++++	++++	+++	++
Surface appearance	++++	++++	+++	++++	++++	++++	+++	+++
Dispersing effect	+++	+++	++	++++	++++	++++	+++	+++
Wettability	++++	++++	+	++++	++++	++++	++++	++++
Improvement of mechanical properties	++++	++++	+++	++++	++++	++++	++++	++++
Durability	++++	++++	++++	++++	++++	++++	++++	++++
Yield efficiency								
Improved insulating properties								
Freeze-thaw resistance								
Efflorescence control								
Hydrophobizing properties								
Beading effect								
Shrinkage reduction								
Release properties								
Corrosion protection								
RECOMMENDED CONCRETE SUPERPLASTICIZER					● suitable ●●● highly recommended			
Polycarboxylate ether (PCE)	●●●	●●●	●	●●●	●●●	●●●	●●●	●●●
Lignosulphonates	●●●	●●●	●●	●●●	●●	●●	●●	●●●
Sulphonated naphtalene formaldehyde (SNF)	●●	●●	●●●	●●	●●	●●	●●	●●●
Sulphonated melamine formaldehyde (SMF)	●●	●●	●●●	●●	●●	●●	●●	●●●
Blends (e.g. PCE – lignosulphonate)	●●●	●●●	●●	●●●	●●	●●	●●	●●●

	AIR VOID MANAGEMENT	PROTECTION MANAGEMENT	CURING MANAGEMENT	RELEASE MANAGEMENT	
	AIR ENTRAINER	WATER REPELLENTS		SHRINKAGE REDUCER	MOLD RELEASE
	SITREN AirVoid® 601	TEGOSIVIN® HE 328	TEGOSIVIN® CA 880	SITREN® SRA L 210	SITREN® MR 870 SITREN® MR 871
CHEMICAL NATURE	BLEND OF ANIONIC SURFACTANTS	EMULSION OF ORGANOMODIFIED SILOXANES / SILANES	EMULSION OF ALKOXY-FUNCTIONAL SILANES	MODIFIED POLYETHER	EMULSION OF VEGETABLE OILS EMULSION OF VEGETABLE OILS
SOLID CONTENT	35%	50%	60%	100%	58% 58%
DOSAGE	0.01–0.5% by weight of cement	0.1–1.0% by weight of cement	0.1–1.0% by weight of cement	0.5–2.0% by weight of cement	10–18 g/m² 10–18 g/m²
PRODUCT PROPERTIES			+ suitable ++ good +++ very good ++++ optimal +++++ excellent		
Air entrainment	++++			++	
Workability	++++				
Defoaming properties					
Compatibility					
Surface appearance	++				++++ +++++
Dispersing effect	++++			++	
Wettability	++			++++	
Improvement of mechanical properties					
Durability	++++	++++	++++	++++	++++ +++++
Yield efficiency	++++				
Improved insulating properties	++++	++++	++++		
Freeze-thaw resistance	++++	+++	+++		
Efflorescence control		++++	+++		
Hydrophobizing properties		++++	+++		
Beading effect		+++	+++		
Shrinkage reduction				++++	
Release properties					++++ +++++
Corrosion protection					+++ +++++
APPLICATION AREAS					
In-situ concrete / Readymix concrete					● suitable
Standard / Structural concrete	■	■	■	■	■
Lightweight concrete	■			■	■
Precast or prefabricated concrete					
Standard / Structural concrete		■	■	■	■
Lightweight concrete	■			■	■
Paver and bricks					
Semi-dry concrete	■	■	■	■	■
Wetcast concrete	■	■	■	■	■
Concrete screeds					
Concrete screeds	■	■	■	■	■
Flowable screeds	■	■	■	■	■
Special concrete					
HPC/UHPC ([ultra] high performance concrete)		■	■	■	■
Architectural concrete		■	■	■	■
Air entrained concrete	■	■	■	■	■
Self-compacting concrete	■	■	■	■	■
Reinforced concrete	■	■	■	■	■
Prestressed concrete					■