



News Release

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Master Builders Solutions[®] launches innovative shrinkage-reducing admixture MasterLife SRA 900

- » Extends the service life of concrete by reducing crack widths
- » Reduces shrinkage by up to 60 percent
- » Ensures high-quality concrete

With MasterLife SRA 900, Master Builders Solutions[®] is introducing an innovative admixture to extend the service life of concrete. The premium solution in the new MasterLife SRA series effectively reduces shrinkage and crack formation to produce high-quality, durable concrete.

Shrinkage normally describes a reduction in the volume of concrete independent of loading as a result of changes in its moisture content. Two well-known types of shrinkage are drying as a result of the progressive hydration of the cement (autogenous shrinkage) and drying shrinkage as a result of the release of moisture to the surroundings. All types of shrinkage may lead to cracking which can pose a risk to the durability of the concrete.

MasterLife SRA 900: solution for effective shrinkage reduction

For the effective reduction of shrinkage, Master Builders Solutions has developed the innovative admixtures in the MasterLife SRA series: “They reduce both the autogenous and the drying shrinkage of ready-mixed and pre-cast concrete. The

other mechanical properties of the concrete are not impaired as the chemical mechanism only reduces internal capillary forces”, explained Raphael Breiner, Product Manager for Concrete Admixture Systems at BASF.

The benefit to the customer: even with a dosage of only one percent referred to the cement weight, the highly effective liquid concrete admixture MasterLife SRA 900 reduces the shrinkage of concrete by up to 60 percent. This makes for reduced crack formation and a longer service life. The admixture is compatible with a variety of different types of cement, has no impact on superplasticizer dosage and reaches class A+ in VOC emissions for all relevant samples.

MasterLife SRA is especially recommended for concrete mixtures with a high cement content, for applications under unfavourable weather conditions including heat, wind and sunlight, and for elements with large cross sections. The admixtures are suitable both for ready-mixed concrete and for the production of pre-cast and pre-stressed elements. The end product is high-quality, durable concrete, for example for facade cladding, structures subject to hydraulic stress, road surfaces and all applications where minimum crack formation and wide joint spacing are required.

Further information on the MasterLife products is available on the Internet at <https://www.master-builders-solutions.basf.co.uk/en-gb/products/masterlife>

About the Construction Chemicals division

BASF's Construction Chemicals division offers advanced chemical solutions under the global umbrella brand Master Builders Solutions for the construction, maintenance, repair and renovation of structures. The brand is built on more than 100 years of experience in the construction industry. Our comprehensive portfolio encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing systems, sealants, concrete repair & protection systems, performance grouts, performance flooring systems, tile-fixing systems, expansion joints & control systems and wood protection solutions.

The Construction Chemicals division's approximately 6,500 employees form a global community of building experts. To solve our customers' specific construction challenges from conception through to completion of a project, we draw on our specialist know-how, regional expertise and the experience gained in countless constructions projects worldwide. We leverage global BASF technologies and our in-depth knowledge of local building needs to develop innovations that help make our customers more successful and drive sustainable construction.

The division operates production sites and sales offices in more than 60 countries and achieved sales of about €2.4 billion in 2017.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The more than 115,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into five segments: Chemicals, Performance Products, Functional Materials & Solutions, Agricultural Solutions and Oil & Gas. BASF generated sales of €64.5 billion in 2017. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at www.basf.com.