

## PRODUCT DATA SHEET

# SiriPump<sup>®</sup>

SiriPump<sup>®</sup> is a versatile concrete admixture designed to enhance challenging concrete mixes while protecting concrete pumps and pipelines from excessive material wear.

### DESCRIPTION

SiriPump<sup>®</sup> is a universal concrete admixture designed to improve the pumpability of challenging concrete mixes while protecting concrete pumps and pipelines from excessive wear.

### USES

- SiriPump<sup>®</sup> is primarily used for concrete mixes with variable fines, low cement content, or poor particle size distribution (granulometry), resulting in low water retention capacity.
- These mixes often tend to segregate during pumping or generate excessively high pump pressures.
- Even contaminated aggregates, such as those containing dirt and debris, can be pumped efficiently without excessive pump pressure when using SiriPump<sup>®</sup>.

### CHARACTERISTICS / ADVANTAGES

- SiriPump<sup>®</sup> significantly enhances the internal cohesion, plasticity, and flexibility of fresh concrete, leading to improved workability and superior pumping characteristics.
- It helps prevent disjointed or jerky concrete pumping, ensuring smoother flow and greater pump efficiency.
- SiriPump<sup>®</sup> reduces stress on concrete pumps and pipelines, extending their service life.
- It has no adverse effects on the hardened concrete properties.
- SiriPump<sup>®</sup> is free from chlorides and other substances that cause reinforcement corrosion, making it safe for use in reinforced and prestressed concrete structures without restrictions.

### PRODUCT INFORMATION

<b>Chemical Base</b>	Dry crystalline powder of anionic polyelectrolyte
<b>Packaging</b>	500 gram pouch
<b>Appearance / Colour</b>	White crystalline powder
<b>Shelf Life</b>	36 months (when stored in dry, moisture-free conditions)
<b>Storage Conditions</b>	Store SiriPump <sup>®</sup> at temperatures between +10°C and +40°C. Protect from direct sunlight, frost, and contamination. If frozen, SiriPump <sup>®</sup> can be reused after slowly defrosting at room temperature, followed by thorough stirring.
<b>Density</b>	~1.09 gm/cc
<b>pH</b>	≥ 5

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	<ul style="list-style-type: none"><li>• 0.2% - 0.4% by weight of cement to enhance the cohesion of challenging concrete mixes.</li><li>• 0.5% - 1.5% by weight of cement to reduce pump pressure and compensate for insufficient fine aggregate fractions.</li></ul>
<b>Compatibility</b>	SiriPump® can be used in combination with various Sirigiri® products. However, when mixed with products containing naphthalene sulfonate, preliminary stiffening may occur. Compatibility testing is recommended to ensure optimal performance. Important: Always conduct trials before combining products in specific mixes. SiriPump® is compatible with all types of cement and cementitious materials.
<b>Dispensing</b>	SiriPump® should be added to the cement-aggregate mix at the batching plant after the mixing water. Do not add to a dry mix. It achieves its maximum effect after a wet mixing time of 90 seconds. SiriPump® slightly alters the viscosity of the concrete mix, which may require a slightly higher mixer load compared to the basic mix at the same water-cement ratio.

## BASIS OF PRODUCT DATA

All technical data provided in this Product Data Sheet are based on laboratory tests. Actual performance may vary due to factors beyond our control.

## LOCAL RESTRICTIONS

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data

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## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sirigiri products, are given in good faith based on Sirigiri's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sirigiri recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sirigiri reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. 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



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