

PRODUCT DATA SHEET

Nanoconmix®-A

Advanced Concrete Accelerator

DESCRIPTION

Nanoconmix®-A is a high-performance concrete accelerator designed to enhance early strength development and reduce setting time. It meets the requirements for high-strength applications, ensuring rapid curing and improved durability.

USES

Nanoconmix®-A is a versatile accelerator ideal for:

- Ready-mix concrete production.
- Cold weather concreting to prevent freezing.
- Achieving ultra-high-performance concrete with minimal addition.
- Faster setting and strength gain in early hours, reducing construction delays.
- Minimizing curing time for early formwork removal and faster construction progress.

CHARACTERISTICS / ADVANTAGES

- **Cement Reduction:** Decreases cement content while maintaining strength.
- **Heat Control:** Regulates hydration heat, minimizing thermal cracking.
- **Thermal Efficiency:** Enhances thermal insulation.
- **Superior Finish:** Improves concrete surface quality.
- **Cost-Effectiveness:** Reduces overall material costs.
- **Controlled Setting:** Ensures predictable and controlled setting times.

APPROVALS / STANDARDS

- **IS 9103** – Indian Standard for concrete admixtures.
- **ASTM C494** – American standard for chemical admixtures for concrete.

PRODUCT INFORMATION

Chemical Base	Metal oxides
Packaging	25 kg Bag
Appearance / Colour	Ash colour
Shelf Life	36 months (when stored in dry, moisture-free conditions)
Storage Conditions	Store in a dry place, protected from frost and moisture.

Density	~1.67
pH	≥ 5

APPLICATION INFORMATION

Recommended Dosage	1.8 % to 5% (b. w. o. c.). Optimum dosage has to be finalized through site trial. Strong agitation at site required for uniform mixing
Compatibility	Nanoconmix®-A may be combined with many other Sirigiri® products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and combinations.

APPLICATION INSTRUCTIONS

DISPENSING

Nanoconmix®-A has to be added directly into the concrete mixer for uniform agitation and blending with the concrete. The blending of Nanoconmix®-A with M-Sand, Fly Ash, or GGBS at silos eliminates the need for additional labor to infuse Nanoconmix®-A into the concrete mix. To achieve optimum performance maintain ambient temperature between 10°C and 25°C

LIMITATIONS

- Overdosing: Segregation, Early setting, Excessive heat, Requires high dosage of plasticizer
- Under dosing: Slow setting, Delayed strength gain, Cold weather issues

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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Product Data Sheet
Sirigiriplast®-520
January 2025, Version 06
20250131000000001599

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

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's 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



FOSTERING RELIABILITY

Types of Nanoconmix

Particulars	Applications	Examples	Application
Nanoconmix [®] -A	For acoustics applications	Film Theatres, Music Schools, Generators etc	Shielding of High frequency sound waves
Nanoconmix [®] -B	For light weight applications	Aviation structures	Light weight and high strength structures like rocket propulsion chamber
Nanoconmix [®] -C	For corrosion resistant application	Marine structures	Safeguards the concrete steel from corrosion by salinity stresses occurring at coastal areas
Nanoconmix [®] -G	High Glaze surface finish	Glass like surface appearance	For aesthetic finish
Nanoconmix [®] -L	For Civil Buildings	All residential Building	Develops strength from M-20 to M-40 within 24 hrs
Nanoconmix [®] -H/ ULTIMA	For commercial Buildings	Bridges, Dams, Roads, Commercial Complexes	Develops strength for M-60 grade within 24hrs
Nanoconmix [®] -T	For Refrigeration & Air conditioning	For software Parks	Enhances the air conditioning capacity of the structures by thermally insulating outside walls
Nanoconmix [®] -W	For water Proofing applications	Roofs of all structures	Develops hydrophobic surface for civil structures
Nanoconmix [®] -N	For Nuclear radiation shielding	Nuclear reactors, Medical diagnosis	Develops civil structures that can inhibit nuclear radiations