

Description:

STERLING TECHNOPLAST -A is a liquid concrete admixture that accelerates concrete set time and increases its plasticity in accordance with ASTM C494 Type E and IS:9103-1999.

Usage:

With STERLING TECHNOPLAST-A, concrete mixes are set and hardened faster, resulting in higher early strength and speedier construction. With STERLING TECHNOPLAST-A, you can take advantage of its accelerating properties in a variety of ways, all of which result in time and cost savings.

As a result of using STERLING TECHNOPLAST-A, you are able to reduce the water content of your concrete or mortar without affecting its workability. As a result, the concrete has improved properties, reduced segregation risk, and increased density and compressive strength, enabling it to be highly impervious and durable.

Concrete can be placed at very low ambient temperatures using STERLING TECHNOPLAST-A. Anti-frost protection is provided by STERLING TECHNOPLAST-A in two ways. First, it reduces the water content, which is susceptible to freezing. Second, it contains ingredients that permit the cement's hydration to occur in the same manner as at normal temperatures.

Features & Benefits:

STERLING TECHNOPLAST-A is suitable for all plain pre-cast concrete applications, including those that require earlier mold release and unit handling.

Floors, roadways, runways, etc.

This includes granolithic floors, roadways, runways, hardstandings, paving, etc. By using STERLING TECHNOPLAST-A, areas can be occupied as soon as possible after they have been laid. The setting/shrinkage of granolithic floors should be kept to a minimum when accelerated hardening is required. With STERLING TECHNOPLAST-A, fully workable granolithic mixes may be produced at lower water/cement ratios, thus minimizing the setting/shrinkage factor and reducing lifting and cracking risks. Additionally, the improved cohesion of the mix allows a smooth, hard wearing surface to be achieved without excessive laitance being produced.

Technical Properties:

Form	Liquid
Color	Dark Brown
pH Value	> 6
Toxicity	Non-toxic
Shelf Life	24 months
Specific Gravity	1.28 ± 0.02
Compatibility	Can be used with all types of Portland cement, slag cement, pozzolana cement including sulphate-resisting cement.

Note: STERLING TECHNOPLAST-A should not be used in reinforcement concrete (RCC).

Method of Application:

STERLING TECHNOPLAST-A is supplied ready to use and should be added to the mixing water at the start of the process. You should not add it neat to the dry cement. Mixing time normally takes two to three minutes and it is not necessary to extend mixing time.

Rate of Addition:

Depending on the amount of hardening acceleration required and the ambient conditions, this ranges from 1.0 to 1.5 liters per 50 kg of cement. Site trials should be conducted in order to determine the exact dosage. Normal acceleration of hardening, for emergency repair and earlier from releases the dosage of STERLING TECHNOPLAST-A should be approximately 1litre per 50 kg cement.

Handling:

STERLING TECHNOPLAST-A is formulated from substances that do not pose a fire or health hazard.

Packaging:

We offer Sterling TECHNOPLAST-A in 20 kg and 250 kg HDPE plastic drums.

Consistency:

STERLING TECHNOPLAST-A is formulated using high quality raw materials, and is manufactured under controlled conditions to ensure consistency across batches.

Additional information:

Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd - The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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Please note that this datasheet supersedes all previous versions