



Description:

HYPERPLUS PCT 2300 is a new-generation, polycarboxylate-based, superplasticizer developed to achieve high early strength, low water/cement ratio, and excellent formwork surface in precast concrete production.

Technical Properties:

Chemical Content	Polycarboxylate polymer
Appearance	Liquid
Color	Light yellow
pH	4 – 7
Density (20 °C)	1.04 – 1.07 g/cm ³
Chloride Content (%)	< 0.1
Alkaline Content (%)	< 5
Freezing	-10 °C

Advantage:

- 20–30% water reduction.
- High early strength (suitable for demolding within 8–16 hours).
- Low segregation.
- Smooth surface finish.
- Short curing cycle.
- Compatible with steam curing systems.
- Increased production cycle efficiency.
- Does not contain chloride or any other substances that may cause corrosion.

Area of Use:

- Precast columns, beams, and panels.
- Tunnel segments.
- Curbstones and reinforced concrete elements..
- Slipform and vibro-press systems

Dosage:

The recommended dosage of HYPERPLUS PCT 2300 is between 0.6 – 1.6% by weight of the total binder content in the concrete mix design. The specified dosage may vary depending on the type of cement, aggregate properties, mineral additions, water content, and the required fresh and hardened concrete performance characteristics. The optimum dosage should be determined through laboratory trials based on the specific project requirements, and the final mix proportions should be established accordingly. When it is required, the Shva Co. technical support unit should be consulted.

Method of Application:

HYPERPLUS PCT 2300 should be added to the mixing water or directly into the concrete mix during batching. It is recommended not to add the admixture to dry cement. Ensure adequate mixing time after addition to achieve uniform distribution throughout the concrete. For optimum performance, trial mixes are strongly recommended before large-scale production to verify workability, setting behavior, and strength development under specific project conditions.

Standards:

- HYPERPLUS PCT 2300: EN 934-2 Table 3.1-3.2
ASTM C 494 Type F

Compatibility:

HYPERPLUS PCT 2300 admixture is compatible with other Shva Co. admixtures used in the same concrete mix. If more than one type of admixture will be used in the concrete mix, they must be dispensed to the concrete separately.

Precautions in Application:

- It should not be used or mixed with naphthalene-based additives.
- Do not exceed the recommended dosage without prior laboratory verification.
- Always perform trial mixes before full-scale production.
- Do not add directly to dry cement; ensure addition into mixing water or fresh concrete.
- Adjust dosage in case of changes in cement type, aggregate grading, mineral additions, or ambient temperature.
- Protect the product from frost and direct sunlight.
- Ensure proper mixing time to achieve homogeneous distribution.
- Compatibility with other admixtures must be tested before combined use.
- Use appropriate personal protective equipment during handling.



Cleaning: HYPERPLUS PCT 2300 admixture can be washed with fresh cold water and should not be allowed enter sewers or open bodies of water.

Packing:

- 25 kg plastic drum - 200 kg drum - 1000 kg container Bulk

Storage and Shelf Life:

Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 12 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use.

Security Information:

Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Material Safety Data Sheet (MSDS) should be read for detailed information.

