



HIGH RANGE WATER-REDUCER / NEW GENERATION SUPERPLASTICIZER CONCRETE ADMIXTURE

Description:

HYPERPLUS 2125 / 2125 S / 2125 W is a high-performance, new-generation polycarboxylate based, high-range water-reducing admixture specifically developed for the production of self-compacting concrete (SCC). The product is engineered to provide optimized rheology control and climate-adapted setting performance, ensuring consistent concrete behavior under varying ambient temperature conditions.

Technical Properties:

| | |
|-----------------------------|-------------------------------|
| Chemical Content | Polycarboxylate polymer |
| Appearance | Liquid |
| Color | Light brown |
| pH | 4 - 6 |
| Density (20 °C) | 1.05 – 1.10 g/cm ³ |
| Chloride Content (%) | < 0.1 |
| Alkaline Content (%) | < 5 |
| Freezing | -10 °C |

Advantage:

- High water reduction (25–35%).
- Slump flow up to 650–750 mm.
- Extended workability retention.
- Reduced segregation and bleeding.
- Improved early and ultimate strength.
- Reduced vibration requirement.
- Smooth and dense surface finish..
- Does not contain chloride or any other substances that may cause corrosion.

Area of Use:

- Self-Compacting Concrete (SCC).
- Highly reinforced structural elements.
- High-strength concrete production.
- Pumped concrete.
- Precast and prestressed concrete.
- Concrete requiring superior surface finish.

Dosage:

The recommended dosage of HYPERPLUS 2125 / 2125 S / 2125 W is between 0.6 – 1.5% 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 2125 / 2125 S / 2125 W 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.

Packing:

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

Usage According to Weather Conditions:

- In winter months: HYPERPLUS 2125 W
- In summer months: HYPERPLUS 2125 S
- In transitional seasons: HYPERPLUS 2125

Standards:

- HYPERPLUS 2125: EN 934-2 Table 3.1-3.2
ASTM C 494 Type F
- HYPERPLUS 2125 S: EN 934-2 Table 11.1-11.2
ASTM C 494 Type G
- HYPERPLUS 2125 W: EN 934-2 Table 3.1-3.2
ASTM C 494 Type F

Compatibility: HYPERPLUS 2125 / 2125 S / 2125 W 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 2125 / 2125 S / 2125 W admixture can be washed with fresh cold water and should not be allowed enter sewers or open bodies of water.

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.

