

Fluidum SK (50%)

High Performance Slump Keeper

Description & Uses

Fluidum SK is the third-generation superplasticizer (polycarboxylate copolymer) for concrete and mortar. It meets the requirements of Type F (Water Reducing, High Range) according to ASTM C 494.

Fluidum SK is a high-performance water reducer, which can be applied to high risers and large- sized buildings requiring high-strength and high-fluidity concretes.

Characteristics and Advantages

- Shows good water reduction.
- Produces the consistent concrete by protecting materials from separation.
- Increases the early strength of the concrete.
- Practically improves the pumpability due to a lower viscosity of the concrete.
- A colorless, transparent liquid
- Low chloride and sulfate-free

Physical Properties

• Color ^A	Transparent whitish
• Specific gravity(20°C)	1.09± 0.01
• Viscosity(20°C)	400 ± 100 cPs
• Solid % ^B	50 ± 1.0
• pH	4.8 ± 1.0

^A It could be faint yellow as time passes.

^B The value is based on the test method for residue by Moisture Analyser(AND MX-50) at 160°C.

Instructions for Use

- For manufacturing concretes of general strength:
 - Weight % of Binder: **0.3 ~ 1.0%**
- For manufacturing concretes of high strength and fluidity:
 - Weight % of Binder: **0.4 ~ 2.0%**
- Decide a target dosage depending on the concrete mix design, materials used, temperatures, mixer types.

Main Applications

- Skyscrapers and large-sized buildings.
- Self-compacting concrete structures requiring high fluidity.
- Bridges requiring high strength and durability.
- Pre-cast concrete structures with consistent concretes.
- General concretes that need initial dispersion.
- Civil engineering and construction sites requiring sulfate- resistance.

Product Packaging

- Tank truck: 21M/T(Flexi Tank)

Cautions

- Side effects of overdosing:
 - Decide a target dosage depending on the concrete mix design.
 - Overdosing can cause the segregation of concrete materials and thus the strength of concrete may become severely lower than the target value.
- Storage Temperature:
 - *Fluidum SK* must be stored at temperatures above 32 °F (0 °C) to avoid freezing.
 - *Fluidum SK* must be stored at temperatures below 104 °F (40 °C) to avoid changes in quality as well.

- Handling:

- No special requirements during use. However, protection gloves and glasses are recommended.

- *Fluidum SK* is nonflammable, non-toxic or irritant and thus is not subject to special transport requirements.

- Shelf Life:

- *Fluidum SK* has a minimum shelf life of 1 year. Depending on storage conditions, the shelf life may be longer than stated.

- *Fluidum SK* should be stored out of direct sunlight and protected from extremes of temperature.

- Don't mix with other chemical admixtures.

- In case of the freezing of the product, warm below 86° F (30 °C) and mix it fully.

- Consult with our technical service engineer,

- if entrained air needs to be adjusted.

- if storing for a long time and thereafter using it.

- Don't use it for other uses except manufacturing concretes as chemical admixtures.

- Wash with enough flowing water if it is contacted on skin or clothes.

- A full Material Safety Data Sheet is available from us on request.