

## Polyfam® PR597

### Description

Polyfam® PR597 is a high performance water reducer with some retardation, which can be used for high risers and large size buildings, requiring long-term workability with slump retention without any negative impact on setting time.

Polyfam® PR597 complies with ASTM C 494 type F and G.

### Specification

<b>Appearance</b>	Transparent white
<b>Solids content</b> (ISO 3251: 1h; 105 °C)	55.0 % ± 1.0 %
<b>Density</b> (ISO 2811)	1.096 ± 0.01
<b>pH value</b> (ISO 976)	4.5 ± 1.0
<b>Viscosity</b> (ISO 2555; Brookfield-viscometer; 20 °C)	800 ± 100 cP

### Applications

Polyfam® PR597 shows good water reducing and slump retention. Polyfam® PR597 practically improves pumpability due to low viscosity of concrete, resulting in good workability at extended time.

Polyfam® PR597 shows better water reducing than Naphthalene and Melamine based water reducers.

Polyfam® PR597 is used and recommended for the hereunder applications.

- Skyscrapers and large size buildings.
- Self-compacting concrete structures requiring high fluidity.
- Bridges requiring high strength and durability.
- Long-term casting construction sites requiring consistent concrete.
- Other concretes that need both initial dispersion and high performance of slump retention.

### Processing

Recommended dosage for different use of Polyfam® PR597 varies as follows:

- For manufacturing concretes of general strength: 0.4~1.0 weight % of Binder
- For manufacturing concretes of high strength and fluidity: 0.5~1.5 weight % of Binder

Decide a target dosage depending on mix design conditions, materials used, temperatures and mixer types.

### Cautions

- Do not mix Polyfam® PR597 with other chemical admixtures
- In case of the freezing of Polyfam® PR597, warm at below 30°C and mix it fully.
- Do not use Polyfam® PR597 for other uses except manufacturing concretes as chemical admixtures
- Wash with enough flowing water if contacted on skin or clothes.