

FLOREY[®] TPEG

ISOPENTENOL POLYOXYETHYLENE ETHER
FIVE-CARBON POLYCARBOXYLATE MONOMER

Product Description

TPEG/VPEG/IPEG/C5 Monomer is the main raw material for the production of polycarboxylic acid superplasticizer, which is prepared by the reaction of isopentenol and ethylene oxide. In the production process of PCE, it is generally used to produce water-reducing type, comprehensive type, slow release type and slump retaining type water reducer. TPEG is better than HPEG as a slump retaining agent. Polycarboxylate superplasticizer can be produced by free radical polymerization by heating method or oxidation - reduction method at room temperature.

Product characteristics

1. High active catalyst and special synthesis technical process, especially for slump retaining polycarboxylate superplasticizer.
2. High double bond retention rate.
3. Excellent adaptability to cement.
4. Endow superplasticizer with high water reduction rate.
5. Improving early strength
6. Greatly reducing W/B ratio, shrinkage and creep, improving durability.
7. Low slump loss.
8. Low content of chloride ion ($\leq 0.1\%$).

Product specification

Items	Standard
Appearance	White or yellowish flakes
Hydroxyl value mgKOH/g	23.40 $\pm$ 1.00
Density g/cm ³	1.02g/cm ³
Moisture%	0.10 max
Chloride, w/%	0.1 max
pH(1% Aqueous Solution)	5.5~ 8.5
Unsaturation mmol/kg	0.385 mix
Double bond retention rate%	93 mix

Henan Fuluorui New Materials Co., Ltd.
Luoyang Florey Import and Export Co., Ltd

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How to Use

1. As an active monomer, TPEG participates in the synthesis of Polycarboxylic Water Reducer.
2. The dosage of TPEG is determined according to the molecular design of Polycarboxylic Water Reducer.
3. The company provides a full set of compound use technology, which can train users. If there are difficult problems, engineers can come to guide them.

Application

The Polycarboxylic Water reducing agent produced by TPEG large monomer can be used to prepare retarding concrete, precast concrete, cast-in-place concrete, high-performance concrete, large flow concrete, self compacting concrete and mass concrete, and can be widely used in high-speed railway, large bridge, water conservancy, hydropower, nuclear power, subway, expressway, harbor wharf and various industrial and civil construction workers.

Package & Storage

1. This product is 25kg bag and 1000kg ton bag.
2. Products should be stored in 0℃-35℃ temperature environment, without direct sunshine, without getting wet in the rain and leaking water, without mixing impurities, without evaporation of water.
3. The shelf life is 12 months.

Precautions

1. This product is non-toxic and harmless, biodegradable, but not edible.
2. If it gets into the eyes, it should be rinsed with plenty of water in time.
3. If you cause allergies to part of the human body, you should consult a doctor in time.

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