



Shandong Zhuoxing Chemical Co., Ltd.

Zibo Zhuoxing Enterprises Co., Ltd.

TDS of Liquid Defoamer XP-11

Description

XP-11 is a modified polyether-based high-performance liquid defoamer designed for use in construction materials such as concrete and wet-mixed mortar.

Technical Principle

Produced by modifying polyether through a specialized process, this product has low surface tension. Upon reaching the gas-liquid interface, it spreads rapidly, quickly breaks bubbles, and provides long-lasting foam suppression. It effectively resolves foam issues arising during mixing, pumping, and molding processes, thereby enhancing the density, strength, and surface quality of the final product.

Advantages/Characteristics

- (1) The product is a colorless liquid with no pungent odor and is environmentally friendly.
- (2) It provides excellent defoaming performance, optimizes the size and distribution of air bubbles in concrete and mortar, reduces the viscosity of the mixture, and improves its flowability and workability. This facilitates pumping, self-leveling, and plastering applications while reducing the risk of delamination and cracking.
- (3) It is highly compatible with cement, gypsum, and other cementitious materials, as well as admixtures such as water-reducing agents, retarders,



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and water-retaining agents. It does not bleed oil or leach out, and does not affect the hydration process or setting time.

Quality Specification

Item	Unit	Standard
Appearance	/	Off-white or light yellowish liquid
Density (23°C)	g/cm ³	1.00±0.02
pH (23°C)	/	6.0±1
Cl ⁻	%	≤0.02
Total Alkali Content	%	≤0.3

Usage Instructions and Precautions

(1) Use in combination with polycarboxylic acid-based water-reducing agents. Recommended dosage: 0.01% to 0.03% of the total mass of cementitious materials. The specific dosage should be determined through small-scale testing, taking into account the material mix design, mixing process, and severity of foaming to establish the optimal value.

(2) Compatibility testing is required when used with other admixtures.

Packaging Specifications

Plastic bulk drums, 1 ton per drum.



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Storage & Transportation

This product is non-toxic and non-flammable and may be transported as a general chemical. Store in a dry, well-ventilated area, away from sunlight and rain. Store and transport at temperatures below 40°C.

Shelf Life

Shelf life of one year under specified storage and shipping conditions.