

Technical Data Sheet (TDS)

Product Name: Polyether 10LD33

Product Introduction

10LD33 is a low unsaturation, high activity polyether polyol designed for the preparation of TDI-based polyurethane waterproof coatings. This product does not require blending with other polyether polyols, greatly facilitating customer transportation and storage, simplifying production processes, and significantly improving the quality stability of the coatings. The waterproof coatings prepared with this polyether polyol exhibit low viscosity, making them suitable for solvent-free waterproof coating formulations. The films formed by these coatings demonstrate excellent mechanical properties, acid resistance, alkali resistance, and heat aging resistance. This polyether polyol can also be used for the preparation of silicone PU (SPU/CPU).

Specifications

Item	10LD33	Test Standard
Appearance	Clear liquid, no suspension	Q/ZHDDZB 05.10.001-2024
Viscosity (25°C), mPa·s	400 ~ 500	Q/ZHDDZB 05.10.001-2024
Hydroxyl Value, mgKOH/g	47.00 ~ 49.00	Q/ZHDDZB 05.10.001-2024
Water Content, %	≤0.020	Q/ZHDDZB 05.10.001-2024
Acid Value, mgKOH/g	≤0.030	Q/ZHDDZB 05.10.001-2024
pH Value	6.50 ~ 7.30	Q/ZHDDZB 05.10.001-2024
Color (APHA)	≤20	Q/ZHDDZB 05.10.001-2024

Packaging

The product is packaged in clean, dry, sealed, leak-proof special painted iron drums with a net weight of 200 kg per drum; or in tank trucks, flexitanks, IBCs. It can also be packaged according to customer requirements. Containers must be tightly closed.

Storage & Transportation

During transportation, protect 10LD33 from rain and contamination. Handle with care, avoid collision with hard objects to prevent leakage.

During storage, 10LD33 should be stored at room temperature in a ventilated, dry warehouse, avoiding damp environments. The storage temperature should be kept below 50°C. Avoid direct sunlight and keep away from water sources and heat sources. Alternatively, store sealed in containers made of steel, aluminum, polyethylene, or polypropylene. To prevent moisture absorption and oxidation, it is recommended to purge the container with nitrogen. Storage temperatures above 60°C will cause product quality degradation. Short-term heating or cooling has little effect on product quality, but note that viscosity increases significantly at lower temperatures, which may cause difficulties in production processing.

Shelf Life

Under correct storage conditions, the shelf life is one year from the date of production. The product can still be used after this period if re-inspection confirms it meets specifications.

Note: For low odor products, customers are advised to use them as soon as possible.

Safety Information

10LD33 is classified as a non-hazardous substance. It has a high flash point and is combustible. Use foam, dry powder, steam, or water for firefighting. It is not explosive. It is practically non-toxic, and no special ventilation requirements are needed. The toxicity of general neutral polyether polyols upon ingestion or contact with skin, eyes, or mucous membranes is negligible. In case of skin contamination, wash with soapy water. In case of eye contact, flush with low-pressure clean water.

should be available near the workplace. The product is generally considered non-hazardous to skin. When working in areas where contact with the product is possible, pay attention to personal hygiene. Wash skin that has been in contact with the product using cleaning products before eating, smoking, or leaving the work area.

Spill Handling

Stop the leak if it is safe to do so. For minor spills, use sand or other absorbent material to collect the spillage and place it in a clean, dry container for subsequent disposal. For large spills, contain the spilled material for subsequent disposal. Prevent material from entering groundwater or surface water, as it is not readily biodegradable. All collected spillage should be disposed of according to local environmental regulations.

Disclaimer

The information and technical advice provided above are obtained from reliable sources. However, we make no warranty or guarantee, expressed or implied, regarding the data provided and assume no liability herein. We recommend testing our products for your specific use. We are not responsible for products applied, used, processed, or produced based on the technical information we provide, as these are beyond our control, and the responsibility lies with the user. The conditions and methods of handling, storage, use, or disposal of this product are beyond our control and may be beyond our knowledge. We shall not be held liable for any loss, damage, or expenses incurred due to improper handling, storage, use, or disposal of this chemical under any circumstances.

For more information, please refer to our Product Safety Data Sheet (SDS) or contact our Market Service Department.

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