

Technical Data Sheet

ESON313

Anti-Aging Silane Terminated Polyether

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ESON313 is a silane terminated polyether. It uses unique technology and process synthesis, it is commonly used as the main raw material of wet gas curing adhesive and sealant. The resin not only has excellent bonding properties, but also has a wide range of bonding substrates, No floating divorced cyanate, and no volatile gas was generated during the curing process. It is suitable for conventional sealing bonding in construction, industry, and other industries.

Product Features

- Medium activity, medium modulus;
- Good weather resistance and durability;
- Excellent bonding and mechanical properties;
- Excellent anti-aging and anti-yellowing;
- Good finish, can be coated with traditional paint;
- Easy to operate and use;
- No solvent, no odor, low VOC and friendly to the environment;
- Can be blended with other SIPE polymers;

Main Application

ESON313 polymer can be used as a base polymer in elastic sealants, elastic structural adhesives, potting adhesives and coating materials. The curing method of the polymer is moisture curing and can be made into one-component, two-component or multi-component systems.

The main application areas are:

- High modulus construction sealant
- Transportation industry sealant
- Transparent glue
- Home improvement adhesive

Technical Data^①

Item	Technical Parameters
Polymer Type	Silane modified polyether
Appearance	Colorless or light yellow transparent viscous liquid
Boiling Point, °C	≥250
Specific Gravity, g/cm ³	1.0
Viscosity (25°C), mPa • s	10000-15000
Water Soluble	Almost insoluble in water
Shelf Life, months	≥12

①Data at the conditions 23±2°C、50±5%RH.

Direction For Use

- ESON313 polymer can be quickly dissolved in common organic solvents, but it's almost insoluble in water. Therefore, most of the raw and auxiliary materials in the formula system are oil-soluble substances.
- The curing mechanism of the polymer is that the alkoxy silane at both ends of the polyether reacts with water under the condition of catalyst. Hydrolyzed to silanol, Silanol is crosslinked to form siloxane bonds under catalyst conditions, the final network structure is formed.
- Other auxiliary fillers in the formula need to be dehydrated in advance. The material mixing process needs to be carried out under the protection of inert dry gas.
- For more technical support, please consult our technical engineers.

Cleaning

- The uncured resin can be cleaned with common solvents, such as ethanol. After curing, it can only be removed mechanically and the surface is cleaned.

Safety Precautions

- Store away from children.
- Avoid contact with eyes and skin. In case of accidental contact with the skin, wipe with cloth and then wash with soap; In case of accidental contact with eyes, seek medical attention as soon as possible after flushing with plenty of water. Please refer to the Material Safety Data Sheet (MSDS) for details..

Packing Specification

- 200kg/Drum, packed in iron drum lined with aluminum film bag;
- 1000kg/drum, packed in plastic ton drums;

Transport And Storage

- Transportation: Moisture-proof, rain-proof, sun-proof, high-temperature protection, away from heat sources, handle with care, no extrusion collision.
- Storage: sealed and stored in a low-temperature, dry place, the recommended storage temperature is 5~25 ° C, humidity ≤ 50%RH.
- Storage period: 12 months.

Special Notes: All recommendations concerning our products, including transportation, storage, and handling are based on our current knowledge and experience under normal conditions. In practical application, results may differ because of materials and actual site conditions change, our company do any guarantee and bear any legal responsibility. In order to ensure the bonding effect and the compatibility of products and materials, it is recommended to do the compatibility test or consult our company's Technical Services before proceeding with the full application.

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