MANTA

Technical Data Sheet

Version: 1.0

Manta SPUR M3050

Silylated Polyurethane

Description

Manta SPUR M3050 is a silylated polyurethane (SPUR) resin for one-component, moisture-curing sealants and adhesives. It is a base resin for medium-modulus sealants and adhesives in industrial and transportation applications where tensile strength is required, and offers broad formulation latitude, strong adhesion to a variety of surfaces, good chemical and weathering resistance, good elastic recovery and long shelf life.

Typical Physical Properties

Manta Code:	SPUR M3050
Chemical Name:	Silylated polyurethane resin
Appearance:	Slightly yellow viscous liquid
Boiling Point:	> 250 °C
Viscosity (25 °C):	35,000 – 55,000 mPa·s
Density (25 °C):	approx. 1.0 g/cm³
Modulus:	Medium

Properties

- Plasticizer-free resin
- Medium modulus for applications requiring tensile strength
- Broad formulation latitude
- Strong adhesion to a variety of surfaces
- Good chemical and weathering resistance
- Good elastic recovery
- Long shelf life

Applications

Manta SPUR M3050 contains no plasticizer and can be used in:

- Construction: door and window perimeter sealing, door and window waterproof sealing, kitchen and bathroom waterproof sealing (mildew resistance requires a suitable fungicide), floor joint sealing and high-transparency glass sealing.
- Industrial sealing: seam sealing of buses and rail vehicles and weld-seam sealing of tricycles.

Processing

The silane groups of Manta SPUR M3050 react with atmospheric moisture. Store and process the resin with moisture excluded; dry fillers before use and add a water scavenger such as vinyltrimethoxysilane (VTMO) to obtain adequate shelf life of the formulated product.

Curing is typically accelerated with organotin or amine catalysts; catalyst type and level should be determined in the specific formulation.

Packing

50 kg plastic drum with aluminum-foil liner bag;
200 kg drum with aluminum-foil liner bag;
1,000 kg IBC (tote);
Other pack sizes available on request.

Safety and Storage

Store in the tightly closed original container in a cool, dry place, protected from moisture and direct sunlight. Shelf life: 12 months from the date of production when stored as recommended. The product is classified as non-hazardous. Refer to the current Safety Data Sheet (SDS) for safety, handling and transport information.

Note: The values in this data sheet are typical values and are not intended for use in preparing specifications. Users should test the product to determine its suitability for their specific application.

Contact Information

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