

TYPE

Urethane bisoxazolidine, latent hardener for polyisocyanates

USES

SETA H 2959 is used as the co-reactant for polyisocyanates in one-component polyurethane systems. The product contains blocked amino and hydroxyl groups which are activated by atmospheric moisture.

FORM SUPPLIED

Solvent-free liquid

SPECIFICATION

NH equivalent weight:	330 ± 40 g/eq
Viscosity (23 °C): DIN EN ISO 3219/A.3	3000 ± 2000 mPa·s
Iodine color value: DIN EN 1557	Max. 4

OTHER DATA *

Density (20 °C): DIN EN ISO 2811	approx. 1.07 g/cm ³
Flash point: DIN EN ISO 2719	92 °C

* These values provide general information and are not part of the product specification.

PROPERTIES / APPLICATIONS

SETA H 2959 can be combined with various polyisocyanates such as Desmodur¹ E 14, E 15, XP 2406 and Z 4470 to formulate moisture-curing one-component systems. SETA H 2959 should only be used in its homogeneous state (see "Storage").

The reaction of SETA H 2959 may be from bifunctional (only NH groups) to tetrafunctional (NH and OH groups). The NH + OH equivalent is half the NH equivalent. The amount of SETA H 2959 added varies depending on requirements. It is best to determine the addition empirically. The technical properties (e.g. water resistance, weather stability, etc.) of the end product must be tested.

To ensure adequate acceleration of the reaction between hydroxyl and isocyanate groups – especially when using aliphatic polyisocyanates – the addition of conventional polyurethane catalysts such as dibutyltin dilaurate is recommended.

SETA H 2959 yields formulations which cure at room temperature to form homogeneous and blister-free films, even in high thicknesses. Good air circulation should be ensured so that the coatings can cure quickly and evenly. Furthermore there is needed an atmospheric humidity between 30 - 70%.

Coatings containing SETA H 2959 must not be applied in closed rooms.

¹ Covestro

STORAGE

When stored in originally sealed containers at temperatures not exceeding 30°C, the product will remain stable for at least 365 days.

General information: The product is sensitive to moisture and should therefore be stored in its sealed original containers.

Additional note: The product may partially crystallize at temperatures below 0 °C. It can be re-homogenized by gently heating the product at between 50 and 60 °C for approximately 6 to 8 hours.

LABELING AND REACH APPLICATIONS

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.