Technical Datasheet

Incozol EH

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Description

Incozol EH is a catalyst-free urethane bridged bis-oxazolidine curing agent for use in 1K polyurethane coatings, adhesives and sealants.

Used in conjunction with low NCO polyurethane prepolymers, this curing agent accelerates the cure of the prepolymer through a moisture triggered mechanism to afford crosslinking benefits to the 1K polyurethane coating. In addition, it enhances properties such as through cure development and mechanical strength by the elimination of CO2 gassing in high build, high solids PU systems.

Incozol EH confers tolerance to the repeated opening of containers and can be used as a versatile curing agent with 2 or 4 functional mix ratios. Although typically used in 1K aliphatic PU systems, this oxazolidine may also be used in 1K aromatic PU systems with high NCO content (typically >5%).

Typical Properties

Functionality	4
Equivalent Weight (g/eq isocyanate)	150
Viscosity (cP @ 20°C)	4000
Density (g/cm^3)	1.0225
Colour (APHA)	Colourless to slightly yellow

Features

- Can be stored at sub-zero temperatures (down to -15ºC) without signs of crystallisation, making handling and storage easier and more convenient than other types of bis-oxazolidines.
- Catalyst-free for excellent in-can stability in 1K aliphatic and aromatic PU systems.
- Increases the cure speed of 1K PU systems where the addition of heavy metal catalysts is restricted or unwanted.
- Reduced odour – the reduced volatility of the aldehyde leaving group (2-ethyl hexanal) in this product results in a milder odour compared to bis-oxazolidines based on isobutyraldehyde. Useful for low odour 1K PU formulations.

Typical Applications

- Waterproofing membranes such as roof coatings and balcony coatings
- High build, high solids (low VOC) moisture cure coatings and varnishes

Incorez Limted, Miller Street, Preston, Lancashire, PR1 1EA, England t: +44(0)1772 201964 f: +44(0)1772 255194 e: info@incorez.com www.incorez.com