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# Teramine® A-136

Low Viscosity Cycloaliphatic Secondary Amine Chain Extender
For UV-Resistant Polyureas, Urethanes and Epoxie

## TYPICAL CHARACTERISTICS

| | |
|---|---|
| Appearance | Clear Yellow Liquid |
| Odor | Amine Odor |
| Amine Number, mg/KOH g | 390-420 |
| Density (20°C.) | 0.987 |
| Equivalent Weight, Amine Hydrogen | 136 |
| Viscosity @25º C, mPa | 800-1,400 |
| Moisture, % Max | 0.2 |
| Color Gardner | 2 Max |

## COMPATIBILITY

Teramine® A-136 is a cycloaliphatic secondary amine for use as a chain extender for polyurethanes, epoxies and polyureas. The product can be used in 2K systems with both aromatic and aliphatic isocyanates to extend pot life and improve performance. A reaction between Teramine® A-136 and the polyisocyanate is not sensitive to temperature variations in the range of -30°C and 60°C. In addition, the presence of moisture in the substrate does not significantly affect the rate of reaction because the reaction of Teramine® A-136 with water is much slower than with other secondary amines.

## APPLICATIONS

Coatings based on Teramine® A-136 have excellent chemical resistance and weatherability and can be formulated at 100% solids. Much of the ultimate performance properties of an aliphatic coating system based on Teramine® A-136 – including hardness -- is achieved faster, often within 4 hours, than with conventional aliphatic systems. Adhesion of these coatings to a wide variety of substrates, particularly steel and concrete, is excellent.

Applications include truck cargo bed linings, coatings for tanks, tank linings, bridges, concrete floors and decks, and roofs. Systems based on Teramine® A-136 can also be used for concrete

joints and cracks, and as concrete patching compounds, as well as concrete sealants for both horizontal and vertical joints.

Coatings based on Teramine® A-136 can be used as a moisture-vapor barrier in concrete slabs and foundations as well as waterproofing of waterscapes, pools, and ponds, including applications for zoos, amusement parks, and commercial landscapes.

Properly formulated spray coatings can be applied by means of high-pressure spray equipment at elevated temperatures using a conventional 1:1 mixing ratio..

## FEATURES

Excellent weatherability, film transparency, UV resistance, and color fastness.

Longer pot-life in aromatic systems.

Faster development of ultimate performance properties in aliphatic systems.

Coatings withstand temperatures up to 90°C, much higher than conventional polyureas.

2K reaction is much less sensitive to presence of water.

2K reaction is effective in a temperature range of -30°C to 60°C.

Solvent-free coatings formulations possible at 100% solids.

Coatings formulations are highly resistant to chemicals such as solvents, acids and alkalis.

Spray-applied 2K coatings can be formulated at a 1:1 mix ratio.

Thick films up to several millimeters are possible.

Coatings formulations can offer water-resistance and waterproofing performance.

## RECOMMENDED USE LEVELS

Coatings based on Teramine® A-136 must be tested in advance in both laboratory and in field trials before use to determine the best formulation and suitability for use and application. Recommended starter formulations are available upon request for specific applications.

## SAFETY, STORAGE, AND HANDLING

Teramine® A-136 in tightly sealed containers. For extended storage of a partial container, a nitrogen blanket is recommended to reduce accidental exposure to high temperatures and to reduce moisture contamination. Keep storage temperatures above freezing in a range of 15-35º C. Shelf life of product is 36 months from date product is received in original closed containers and stored at room temperature. Consult SDS before use.

## CONTAINER SIZES

5 gallon pails (Net Wt. 41.9 Lb/19 Kg)

55 gallon drums (Net Wt 441 Lb/200 Kg)

275 gallon totes (Net Wt. 2,205 Lb/1,000 Kg)