



MONDUR 582

Aromatic Polyisocyanate

Description

Mondur 582 is a medium – functionality polymeric isocyanate based on diphenylmethane- diisocyanate (MDI).

Application

Mondur 582 polyisocyanate is used with 100% solids polyols such as Desmophen 1150 and 1920 D to formulate solvent-free coating systems. Hardness and flexibility are determined by combining various polyols. These systems are suitable for coating metallic substrates, concrete, asphalt, plastics such as PVC, and rigid and flexible foams based on polystyrene and polyurethane. Typical applications are coatings, polymer concretes, membranes, and joint sealants. Most systems provide satisfactory potlife for manual application. Fast reacting systems can be formulated by the addition of accelerators such as Desmorapid DB, Desmorapid PP, DABCO (Air Products).

As with any product, use of Mondur 582 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Product Specifications

Property	Value
NCO content, %	31.8 -32.6
Viscosity @ 25°C, mPa•s	40–70
Acidity, %	0.07 maximum

Typical Properties*

Property	Value
Appearance	dark brown liquid
Equivalent wt., avg. (as supplied)	129
Specific gravity @ 25°C	1.24
Flash point (Pensky Martens Closed Cup)	300°F (149°C)
Solids, wt. %	100
Weight/gallon lb. @ 25°C	10.3

Storage

Mondur 582 polyisocyanate must be stored in tightly closed containers and protected from moisture and foreign materials. Processability of this material can be adversely affected by contamination. It will react slowly with water to form polyureas and liberate CO₂ gas, which may cause sealed containers to expand and rupture. Recommended storage temperatures are 64–86°F (18–30°C). The shelf life is six months when stored in closed original containers.

Health and Safety Information

Appropriate literature has been assembled which provides information pertaining to the health and safety concerns that must be observed when handling Mondur 582 polyisocyanate. For materials mentioned that are not Bayer products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer should be followed. Before working with any product mentioned in this publication, you must read and become familiar with available information concerning its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms such as material safety data sheets and product labels. For further information contact your Bayer MaterialScience representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

* These items are provided as general information only. They are approximate values and are not part of the product specifications.

Note: The information contained in this bulletin is current as of June 2002. Please contact Bayer MaterialScience to determine whether this publication has been revised.

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This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

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