

Engineered Polymers, LLC.

2842 Progress Road
Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817
www.engineeredpolymers.net

PRODUCT INFORMATION

PRIMER 28

Effective: 6/30/02

Aromatic Polyisocyanate Prepolymer

Product Code EP-28

I. DESCRIPTION

Primer 28 is a polyisocyanate prepolymer based on diphenylmethane diisocyanate (MDI).

II. PRODUCT SPECIFICATIONS

NCO content, % 15.5-17.5 Viscosity @ 25°C, mPa.s.....5200-7000

III. TYPICAL PROPERTIES*

Appearance	Brown liquid	Specific gravity @ 20°C.....	1.14
Solids, wt. %	100	Weight per gallon, lb. @ 25°C.....	9.5
Equivalent wt., avg. (as supplied).....	255	Flash point (Pensky-Marten closed cup).....	460°F

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

IV. APPLICATION

As corrosion-resistant primers, coatings based on **Primer 28** polyisocyanate can be formulated to contain zinc as zinc-rich primers that give galvanic protection. To ensure satisfactory intercoat adhesion, recoating intervals must be determined. The high NCO content of **Primer 28** also makes it an important curing agent for two-component systems.

Primer 28 polyisocyanate is an outstanding material for moisture-curing one-component formulations and is highly recommended to prime and seal porous substrates. Clear formulations of this type are effective dust-binding impregnants as well as sealers for cement and other substrates because they can protect the substrate from chemicals, deicing salt, and mineral oils.

Coatings based on **Primer 28** polyisocyanate are also used for mold releasing in the building and construction industries. Because of their good resistance to alkalis, they are suitable adhesion primers for solvent-free coating compositions based on **ReactAmine**[®] polyisocyanates, **ReactAmine**[®] polyesters, and **ReactAmine**[®] polyethers.

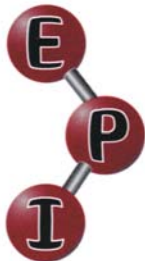
Appropriate catalysts may be added to coatings formulated with **Primer 28** to influence the curing reaction rate.

V. SOLUBILITY

Primer 28 polyisocyanate is readily soluble in esters, ketones and aromatic solvents. Alcohols react with polyisocyanates and should not be used. Only dry solvents and pigments should be used with **Primer 28** polyisocyanate resin.

VI. STORAGE

Primer 28 polyisocyanate should be stored in cool areas in tightly closed containers protected from moisture. Storage life cannot be guaranteed beyond six months.



Engineered Polymers, LLC.

2842 Progress Road
Madison, WI 53716

Phone: (608) 661-2800

Fax: (608) 661-2817

www.engineeredpolymers.net

VII. 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 **Primer 28** polyisocyanate. For materials mentioned that are not **Engineered Polymers, LLC.** 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 **Engineered Polymers, LLC.** representative or the Product Safety representative for Coatings products.