

BLR-8086

PU Hardener

GENERAL INFORMATION

BLR-8086 is a blocked aliphatic polyisocyanate, which is used to formulate one component polyurethane backing paint.

CHEMICAL & PHYSICAL PROPERTIES

Composition	blocked aliphatic polyisocyanate
Appearance	clear liquid
Non-volatile content	74 - 76 %
Solvent	xylene / n-butyl acetate
Specific gravity	1.05 - 1.09
NCO contents	11.1 - 11.5 %

These are typical properties not to be used for specification purposes.

APPLICATIONS

- One-component polyurethane baking paints
- Amino baking paints

KEY PROPERTIES

- Cross-linking time above 130 °C, higher temperature is shorter cross-linking time.
- Curing with hydroxyl-functional resin such as polyester or acrylate, especially in light-stable and weather resistance.
- Good stability in one-component polyurethane.
- BLR-8086 substituted for amino resin(20 - 40 %), to improve toughness, impact resistance and T bend test.

SOLUBILITY

	Dilution
n-Butyl acetate	+
Methyl ethyl ketone (MEK)	+
Ethylene glycol monoethyl ether acetate (CAC)	+
Xylene	+
Solvesso 100	+

+ = soluble / compatible

O = limited soluble / compatible

– = insoluble / incompatible

FORMULA ESSENTIALS

In one-component PU with **BLR-8086**, the curing temperature must be above 130 °C, higher temperature is shorter cross-linking time.

After baking, the film hardness is stable no variation with time in one-component PU.

The same formulation, different curing temperature to obtain different hardness.

HEALTH AND SAFETY

As it contains solvents, the product requires special care in handling. The product is flammable and the containers should therefore be kept away from ignition sources. Precautions against electrostatic pick-up should be taken. The product must only be handled in explosion-proof rooms. Skin and eye contact with the product as well as inhalation of the vapors should be avoided. We recommend the wearing of safety goggles and protective gloves. During spray application the respiratory organs should be protected from spray mist. Another information check MSDS.

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

continued...

BLR-8086

STORAGE RECOMMENDATIONS

Keep away from sources of ignition and heat, as well as container tightly closed in a dry and well-ventilated place.

Stored between 0 °C to 40 °C. (use it when temperature goes back to 25 °C)

SHELF LIFE

BLR-8086 has a shelf life of 18 months from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

© Copyright 2018, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

© Trademark of Elementis Specialties, Inc.

V01 Feb. 2018

North America

Elementis
469 Old Trenton Road
East Windsor
NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Asia

Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563