

Safe high-speed crosslinker for 1K waterborne lamination adhesives.



**Desmodur® 2802** is a waterborne dispersion of a hydrophilically modified, polyfunctional carbodiimide based on aliphatic raw materials. It can be used as a crosslinker for waterborne adhesive formulations for roll-to-roll applications, such as flexible packaging lamination, with following advantages:

- Instant bonding at room temperature for very fast further processing (no hot room storage needed)
- One component processing prevents mixing failures and adhesive waste
- Improved food safety due to aliphatic nature when used in combination with aliphatic reaction partner
- Improves chemical & thermal resistance of adhesive layer
- Maintains brilliant finishes of adhesives that are applied on top of a print
- Pot life up to 6 months (pH 7-9)

The reactive dispersion of carboxyl group-containing polymer (e.g. **Dispercoll U XP 2643** or **Dispercoll U 2824 XP**) and **Desmodur® 2802** has a pot life of up to six months, provided the pH of the reactive dispersion is in the 7–9 range. This long pot life is achieved by the phase separation of the polycarbodiimide and the polymer droplets in the reactive dispersion. After evaporating the water of the reactive adhesive dispersion, the polycarbodiimide zand the polymer droplets form a homogeneous film. Simultaneously, the reactive groups come into contact with each other, and the crosslinking reaction runs with high velocity.

To get the maximum performance out of this technology, it is highly recommended to use approx. 2 mol carbodiimide segments (-N=C=N-) per mol carboxyl groups (-COOH) in the polymer. **Desmodur® 2802** meets the safety requirements of key regulations:

- · Commission Regulation (EU) No. 10/2011
- FDA Regulations in 21 CFR 175.105 (adhesives)

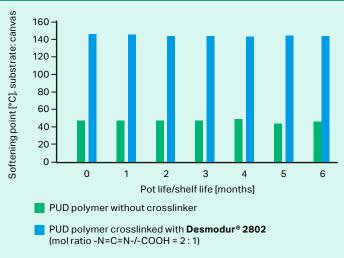
On request, we can provide a corresponding statement on food-contact use.



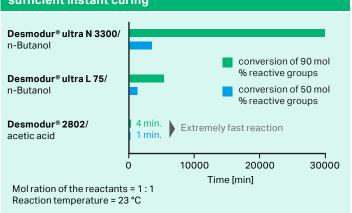
Covestro Deutschland AG Kaiser-Wilhelm-Allee 60 51373 Leverkusen Germany

coatings.covestro.com info@covestro.com





## No delay in downstream processing (e.g. slitting) due to sufficient instant curing



The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, is beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or  $application of the product, unless explicitly stated otherwise. {\tt [EMEA only: If the intended use of the product of the pro$ is for the manufacture of a pharmaceutical/medicinal product, medical device1 or of pre-cursor products for medical devices or for other specifically regulated applications which lead or may lead to a regulatory obligation of Covestro, Covestro must explicitly agree to such application before the sale.] Any samples provided by Covestro are for testing purposes only and not for commercial use. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information, including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release and indemnify us and hold us harmless 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 any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. 1 Please see the "Guidance on Use of Covestro Products in a Medical Application" document. These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values

Edition: 2021 · Printed in Germany