

# Uralac<sup>®</sup> SY946

## Characterization

Uralac<sup>®</sup> SY946 is a hydroxy polyester resin

## Form supplied

Form supplied is approximately 100% as polymer

## Specification

Property	Value	Unit of measurement	Method
Viscosity at 23°C	750 - 1000	mPa·s	TM-2013
Color	0 - 2	Gardner	TM-2017
Solids	100	%	TM2021
Acid value on solid	7 - 12	mg KOH/g	TM-2401
Hydroxyl value on solid	235 - 255	mg KOH/g	TM-2432
Density at 23°C	1.100	g/cm <sup>3</sup>	TM-2160
Flash point	> 100	°C	TM-2800

## Properties / Applications

Suitable for two component polyurethane coatings as such or as combination resin for hydroxy acrylic resins to increase solids contents of industrial finishes, protective coatings, plastics coatings providing high gloss, UV light and heat resistance, weathering resistance and to increase solid content of low VOC coatings.

Uralac<sup>®</sup> SY946 is compatible with aromatic and aliphatic isocyanates.

The resin crystallizes during storage and this causes partial separation of the resin especially at low temperature. This is a reversible process and the resin can be homogenised easily by mixing at elevated temperature.

## Solubility / thinnability

Uralac<sup>®</sup> SY946 can be thinned with xylene, n-butyl acetate, methoxy propyl acetate and limited in solvent naphtha100 and n-butanol

## Storage

The resin should be stored indoors in original, unopened and undamaged container in a dry place at storage temperature between 5- 30 °C. Exposure to direct sunlight should be avoided.

## Storage time

Covestro represents that, for a period of 6 months (180 days) following the day of shipment as stated in the respective transport documents, the product will meet the specifications or values set forth in section "specifications or characteristic data" above, what ever is applicable, provided that the product is stored in full compliance with the storage conditions set forth in and referenced under section "storage" above and is otherwise handled appropriately. The lapse of the 6 months (180 days) period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to

## Uralac<sup>®</sup> SY946

using said product, Covestro recommends to test such a product if it still meets the specifications or the set values. Covestro does not make any representation regarding the product after the lapse of the 6 months (180 days) period and Covestro shall not be responsible or liable in any way for the product failing to meet specifications or the set values after the lapse of the 6 months (180 days) period.

---

---

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you utilize our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. 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 Covestro. 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 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 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.

This product is not designated for the manufacture of a medical device or of intermediate products for medical devices<sup>1)</sup>. [This product is also not designated for other specifically regulated applications (e.g. including cosmetics, plant protection, fertilisers, plant strengtheners, food processing, food contact and others). If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices or for other specifically regulated applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose.] Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro.

1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

Edition: January, 2018

---

Editor: Coatings, Adhesives & Specialties  
Covestro Deutschland AG  
Kaiser-Wilhelm-Allee 60  
51373 Leverkusen, Germany  
[www.covestro.com](http://www.covestro.com)

**Contact:**  
CAS Single Point of Contact EMEA  
e-mail: [cas\\_spoc\\_emea@covestro.com](mailto:cas_spoc_emea@covestro.com)