

## VIASOL UREA C4010 Technical Data Sheet

Product 02401000 2-comp. Polyurea top coat, elastic, transparent, high-gloss

### 1 General Data

#### Fields of application

VIASOL UREA C4010 is used as UV- and color-stable, elastic, transparent top coat for PU-coating systems, in some cases on EP-coating systems as well. VIASOL UREA C4010 can be used for indoor and outdoor application and cures with a high-gloss finish.

#### Product Description

VIASOL UREA C4010 is a low emission, solvent free, 2 component top coat based on aliphatic Polyurea resin. In the cured state the product has a very good abrasion resistance, excellent weathering and color stability and is characterized by very good scratch resistance. It shows good resistance to diluted acids and alkalis, fuels and lubricants. Exposure to chemicals may lead to optical discoloration that will not affect the usability of the flooring. VIASOL UREA C4010 has a low susceptibility to pollution and is easy to clean.

#### Properties

- weather and color resistant
- low emission, solvent free
- Soft, very good scratch resistance
- high-gloss

#### VIASOL systems

VIASOL UREA C4010 is an optional top coat for the VIASOL systems:

VIASOLELASTIC SKY  
VIASOLELASTIC UV

or other systems.

#### Care and maintenance

For a long-term preservation of the properties of resin floors, we recommend a regular cleaning and care programme. For further details, see our VIASOL Care and Maintenance Guide. Before first use we recommend to perform a basic cleaning and initial care.

#### Technical support

For system build up possibilities and detailed information relating to the laying of VIASOL products, please refer to the VIASOL System Planner or contact VIACOR Polymer GmbH directly.

Phone: +49 (0)7472-949990

E-Mail: [info@viacor.de](mailto:info@viacor.de)

#### (A) Technical Data

##### Liquid mixture (A+B)

1. Viscosity (23 °C)	ca. 800 - 1000 mPas
2. Density (20 °C)	ca. 1.1 g/cm <sup>3</sup>
3. Packaging size (2-component container)	18 kg (9.8 kg A + 8.2 kg B)
4. Color	Transparent, high-gloss
5. Shelf life (20 °C)	12 months in originally closed container
6. Storage	Dry at 10-25°C, avoid direct sunlight, protect from freezing

#### (B) Technical Data

##### Cured material

1. Adhesive strength (EN ISO 4624)	> 2.0 N/mm <sup>2</sup>
1. Hardness Shore-A (EN ISO 868)	approx. A70
2. Wear resistance EN ISO 5470-1	<15 mg (Taber CS17)
3. Elongation at break	> 120%
4. Tear resistance DIN EN 196/ASTM C109	> 8 N/mm <sup>2</sup>

#### Manufacturer:

VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg, Tel: +49/7472-94999-0, [info@viacor.de](mailto:info@viacor.de), [www.viacor.de](http://www.viacor.de)

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## 2 Application Method

Please refer also to our general application guideline.

### Substrate preparation

The substrate must be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

VIASOL UREA C4010 is applied on PU wear coats.

VIASOL UREA C4010 can be applied after the waiting time for overcoating mentioned in the specific product data sheet of the previous layer is over.

### Application

VIASOL UREA C4010 is delivered in 2 component containers in the right mixing ratio. The A-component must be stirred for at least 1–2 minutes. Then the entire content of the B-component is emptied into the A-component container and the two components are mixed until homogeneous using a suitable electric stirrer (for at least 2–3 minutes). The inclusion of air in the mixing process is to be avoided. The mixture is poured into another container and briefly stirred again.

VIASOL UREA C4010 is poured onto the surface and spread over the entire area using a rubber squeegee with 4 – 5 mm notches.

We recommend using a spike roller (metal spike roller) to de-aerate the coating.

Higher temperatures and higher humidity will shorten the drying time.

For cleaning of tools and other dirt VIASOL SO-X12 cleaner is recommended.

### Over coating

Please contact our technical support.

### (B) Technical Data

#### Liquid mixture (A+B)

1. Mixing ratio A : B	100 : 84 (% by weight)
2. Material consumption	800 – 1000 g/ m <sup>2</sup>
3. Working time (20 °C)	approx. 25 minutes
4. Application temperature	5 – 30 °C (min. 3°C above dew point)
5. Relative humidity	40 to max. 85%
6. Foot traffic (20 °C)	after 12 – 16 hours (depending on film thickness)
7. Full mechanical load (20 °C) chemical load (20 °C)	after 7 days after 28 days

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### 3 Further Information

#### CE-Mark



##### CE-Mark according to EN 13813

EN 13813: 2003-01, Screed material and floor screeds - Screed materials - Properties and requirements is the basis for requirements for floor screeds used in indoor flooring constructions. Resin coatings and sealer are also subject to this norm.

Details see CE-conformity mark and declaration of performance.

#### Decopaint-Guidelines (EU 2004/42/EG)

The maximum allowable VOC content for Product Category IIA j Type Lb products (in the ready to use state) is:

Stage II (from 2010) < 500 g/l VOC

In the ready to use state, this product contains less than 500 g/l VOC.

#### Warnings and precautions

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin based coating materials must be observed.

Suitable protective clothing including suitable eye protection must be worn.

#### Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

-damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and

-if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

As all VIACOR data sheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue (see [www.viacor.de](http://www.viacor.de) or contact us directly).

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