

VIASEAL HYBRID21/60 Technical Data Sheet

Product 02321600 2-comp. UREA/PU-Hybrid spray coating, highly elastic, mixing ratio 1:1

1 General Data

Fields of application

VIASEAL **HYBRID21/60** is used as spray applied, crack-bridging waterproofing coating for a variety of applications in the construction industry. Applications include tanking, subterranean concrete structures, podium decks, waterproofing layer in car park deck coating systems, tunnel portals, fire fighting water tanks and wet rooms.

For areas with high mechanical wear VIASEAL **HYBRID21/60** is used as waterproofing layer for parking systems under a subsequent wear coating.

It can also be used as abrasion resistant coating for truck bed linings, loading ramps, metal protection in the handling and transport abrasive materials such as sand, gravel etc.

The spray application and the fast curing properties allow vertical and over-head application.

Product description

VIASEAL **HYBRID21/60** is a highly elastic, solvent free, two component polyurethane/polyurea hybrid spray coating.

The product has excellent mechanical properties in a temperature range from -40 °C to +80 °C. The elasticity of VIASEAL **HYBRID21/60** guarantees the crack-bridging and waterproofing properties. The material is spray applied and cures almost without shrinkage. It can be applied up to several mm thick in a multi pass application.

Coatings based on aromatic isocyanates are not colour stable and will yellow when exposed to UV light. We recommend the application of a weather resistant, colour stable top coat in exposed applications.

VIASOL Systems

VIASEAL **HYBRID21/60** is the crack-bridging waterproofing coating for the VIASOL system:

VIASOLDECK rapid

Technical support

For system build up possibilities and detailed information relating to the laying of VIASEAL products, please contact VIACOR Polymer GmbH.

Tel: +49/7022-21790-0

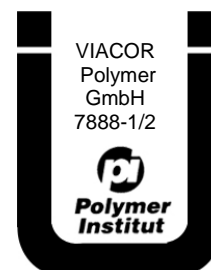
e-mail: service@viacor.de

(A) Technical Data Sheet

Components	VIASOL Hybrid-21	VIASOL ISO-60
1. Density (23°C)	1,02 g/cm ³	1,09g/cm ³
2. Viscosity (23°C)	approx. 1300 mPas	approx. 2500 mPas
3. Packaging size	200 kg (drum, blue)	215 kg (drum, red)
4. Colour	grey	colourless
5. Shelf life (20°C)	6 months in closed original container	
6. Storage	Dry at 10–30°C, avoid direct sunlight	

(B) Technical Data

Cured material	
1. Tensile strength (DIN 53504)	> 15 N/mm ²
2. Elongation at break (DIN 53504)	> 400 %
3. Hardness Shore-A- (DIN EN ISO 868)	91 (5d / 23°C)



Manufacturer:

VIACOR Polymer GmbH, Hohenneuffenstr. 14, D-72622 Nürtingen, fon +49/7022-217900, info@viacor.de, www.viacor.de

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2 Application Method

Please refer also to our general application guideline.

Substrate Preparation

VIASEAL **HYBRID21/60** should only be applied to suitably prepared substrates.

The substrate must be load bearing, 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.

VIASEAL **HYBRID21/60** can be applied on concrete, asphalt, bitumen, steel, PVC, wood, aluminium and old VIASEAL spray coatings. Depending on the substrate, special pre-treatment and primer must be applied. See VIASOL primer matrix for spray coatings. Provision must be made to anchor the coating at termination.

The surrounding areas should be protected from over-spray with paper or foil.

Application

The polyol/amine component VIASOL HYBRID-21 and the isocyanate component VIASOL ISO-60 are supplied in separate drums.

The pigmented VIASOL HYBRID-21 component should be stirred prior to use to re-distribute the pigments. The VIASOL ISO-60 component should have a temperature of minimum 20°C in the supply-container (heat with heating sleeve) to achieve homogeneous pumping. The material can then be taken out of the delivered container.

VIASEAL **HYBRID21/60** is applied using a 1 : 1 ratio, high pressure spray machine capable of producing 180 – 200 bar at the spray tip at a temperature of 75 – 80 °C. The VIASOL Hybrid-21 component should be heated to min. 65°C, the VIASOL ISO-60 component to min. 75°C.

VIASEAL **HYBRID21/60** should be applied wet in wet in a multi-pass application to the desired thickness. The recommended minimum film thickness is 2 mm.

Relevant for the quality of the coating is the good condition and permanent maintenance of the mixer in the spray machine.

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

Overcoating

If applying several layers, it is possible to apply the next layer within 2 hours. After longer intervals, use VIASOL PU-P255 as a primer and grind the VIASEAL **HYBRID** layer, if necessary. .

(C) Technical Data

Liquid mixture (A+B)

1. Mixing ratio A : B (23°C)	1 : 1 by volume
2. Working time	only with machine
3. Application temperature (substrate and ambient air)	8–50°C (min. 3K above dew-point)
4. Application temperature (material) VIASOL HYBRID-21 VIASOL ISO-60 spray tip	min. 65°C min. 75°C 75-80°C
5. Machine pressure	High pressure spray machine with impingement mixer: e. g. GRACO Reactor H-XP2 180-200 bar
6. Permissible rel. humidity	max. 85%
7. Material consumption	1100 g/m ² per mm thickness
8. Dry to touch	after 2 minutes
9. Following layer	within 2 hours

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3 Further information

CE-Mark



CE-Mark according to EN 1504-2

Details see CE-conformity mark and declaration of performance.

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 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 amine and isocyanate resin based coating materials must be observed.

Suitable protective clothing including suitable respiratory and 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 users responsibility to obtain the most recent issue (see www.viacor.de or contact us directly).

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