Product 02315600 Hybrid spray coating, 2-component, highly elastic, solvent free, 100:71 (Vol)

1 General Data

Fields of application

VIASEAL ***HYBRID 15/60*** 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, water-proofing layer in car park deck coating systems, tunnel por-tals, firefighting water tanks and wet rooms.
The spray application and the fast curing properties allow vertical and over-head application.

Product description

VIASEAL ***HYBRID 15/60*** is a highly elastic, solvent free, two component polyurethane/polyuria hybrid spray coat-ing.
The elasticity of VIASEAL ***HYBRID 15/60*** 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 applica-tion.
Coatings based on aromatic Poly-Hybrid are not wheather and colour stable and will yellow when exposed to UV light. We recommend the application of a weather resistant, UV and colour stable top coat or other protection layers for application in exposed areas.

Technical support

For system build up possibilities and detailed information relating to the laying of VIASEAL products, please contact VIACOR Polymer GmbH.
Phone: +49 7472 94999-0
E-Mail: info@viacor.de

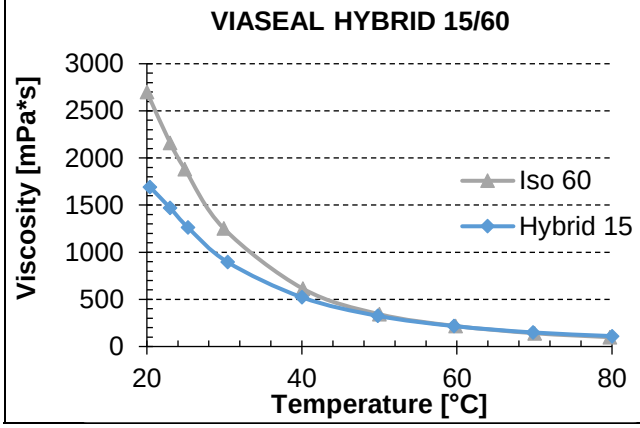
(A) Technical Data Sheet

Components	**VIASOL Hybrid-15**	**VIASOL ISO-60**
1. Density (23°C)	1,03 g/cm³	1,09 g/cm³
2. Viscosity (25°C) (see graph below)	approx. 1500 mPas	approx. 2200 mPas
3. Packaging size	200 kg (drum)	215 kg (drum)
4. Colour	grey	colourless
5. Shelf life (20°C)	12 months in closed original container	
6. Storage	Dry at 10–30°C, avoid direct sunlight	

(B) Technical Data

Cured material	
1. Tensile strength (DIN EN 196/ASTM C109)	> 11 N/mm²
2. Elongation at break (DIN 53504)	> 300 %
3. Hardness Shore-A- (DIN EN 196/ASTM C109)	88 (28d)
4. Abrasion resistance (DIN 53754 / ASTM D4060)	32 mg/1000 U (CS17)

Temperature-dependent viscosity curve



Manufacturer:
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2 Application Method

Please refer also to our general application guideline.

Substrate Preparation

VIASEAL ***HYBRID 15/60*** should only 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 ***HYBRID 15/60*** can be applied on concrete, asphalt, bitumen felts, 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 overspray with paper or foil, especially in windy conditions.

Application

The polyol/amine component VIASOL HYBRID-15 and the isocyanate component VIASOL ISO-60 are supplied in separate drums.
The pigmented VIASOL HYBRID-15 component should be stirred prior to use to re-distribute the pigments.
VIASEAL ***HYBRID 15/60*** can just be processed by spraying with special hot spraying machines with gear type or piston pump and static mixer (e.g. 2-K spray equipment), that reaching at least by the static mixer 120 bar pressure at a temperature of 65-70°C. The VIASOL HYBRID 21 and ISO-60 components should be heated to at least 60°C. In the spray gun just dry compressed air can to be introduced. Special high-pressure machines with impingement mixer can also be used so-far these could process variable mixing ratios. Decisive for the quality of the coating is the perfect state of the mixer. The maintenance of the machines and the mixer must be done therefore extremely careful. VIASEAL ***HYBRID 15/60*** should be applied wet in wet in a multi-pass application to the desired thickness. The recommended minimum film thickness is 2 mm. If necessary the layer thickness can be applied > 5 mm in one operation.

For cleaning of tools and other impurities use VIASOL SOX12 tool cleaner. For cleaning of the spray equipment, the notes of the manufacturer must be observed.

(C) Technical Data		
Liquid mixture (A+B)		
1.	Mixing ratio A : B (23°C)	100 : 75 by weight 100 : 71 by volume
2.	Working time	only with machine (sprayed) 10 – 15 seconds
3.	Application temperature (substrate and ambient air)	8–50°C (min. 3K above dew-point)
4.	Processing temperature* (Material)	High pressure machine: - with static mixer: ca. 65 - 75°C - with impingement mixer: ca. 75 – 80°C
5.	Machine – spray pressure*:	High pressure machine: - with static mixer: ca. 120 – 150 bar - with impingement mixer: ca. 160 – 180 bar
6.	Permissible rel. humidity	max. 85%
7.	Material consumption	1100 g/m^2 per mm thickness
8.	Touch dry	after 5 minutes
9.	Following layer	within 4 hours

* In order to ensure a homogeneous mixture of the two components, tests with the respective systems should be done if necessary. The above-mentioned values are approximate and may differ from the processing parameters actually required.

Over coating

If applying several layers, it is possible to apply the next layer within 4 hours. After longer intervals, use VISOL PUP255 as a primer and if necessary grind the VIASEAL ***HYBRID 15/60*** layer.

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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 conformity declaration.

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 characeristics 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 characteritics of the product.
Due to different materials, sub-bases and working conditions, no guaratee 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 vialation 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 or contact us directly).

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