

QuickSeal LP 65

POLYUREA

1. Characteristics:

QuickSeal LP 65 is a modified polyurea elastomer especially designed for easy application in a wide range of climatic conditions. **QuickSeal LP 65** has a shore A hardness of 65 making it ideal for waterproofing applications. **QuickSeal LP 65** is a 100% solids product that contains no VOC's or solvents. Designed to be sprayed through VIP's proprietary low pressure spray machine **QuickSeal LP 65** is an economical lining for a wide variety of applications requiring a robust long lasting, flexible water tight membrane.

2. Features:

- **QuickSeal LP 65 the economical alternative to High Pressure, hot spray systems.**
- **Applied using VIP Low Pressure Proportioner, 240 volt cold spray application equipment.**
- Fast reactivity and cure times even in less than ideal climatic conditions.
- Low moisture susceptibility during application.
- Spray applied – seamless application. No joins.
- Can be applied across multiple substrate types in one application.
- Fast return to service time > long life-cycle > maintenance free > significant savings
- Excellent adhesion on concrete, steel, aluminium, wood, foam etc.
- Good resistance to most standard chemicals, cleaners, fuels and oils.
- Can build to any thickness in one application.
- Excellent vibration and noise absorption capabilities.
- Allows accurate reproduction of surface detail.
- Excellent casting material.
- 100% solids, VOC-free, no solvents
- Weather-proof and saltwater resistant
- Excellent thermal stability -20C to 100C

3. Typical Uses:

- Roof top waterproofing – green roofs.
- Wet area waterproofing, box gutters, podium decks, retaining walls.
- Pond and water feature linings.
- Noise reduction on industrial fans and blowers.
- Transportable market stalls – floors and wet areas.
- Toilets and shower areas in camping grounds, prisons, sport grounds, apartment complexes etc.
- Water tank linings.
- Casting material for reproduction of originals.
- Pour casting as joint filler.

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4. Processing properties:	Data
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume
Material consumption [kg/m ² /1mm]	Approx. 1,0 kg
Recommended thickness [mm]	Minimum: 2 Maximum: unlimited
Gel time at 20°C [sec.]	Approx. 20 seconds (dependent on the temperature of the substrate)
Tack Free-Time at 20°C [sec.]	40 – 60 seconds (dependent on the ambient temperature)
Over coat cycle [h]	0 – 12 (without any pre-treatment)
Curing/loading after [h]	Walkable: 1 Mechanical: 2-4 Chemical: 12-24
Temperature range for application (ambient) [°C]	10 - +40 Optimal 15 – 30C
Temperature range for application (substrate) [°C]	10 - +40
Material Temperature (Preconditioning) [°C]	25 – 30 Optimum
Material Temperature (Spraying) [°C]	15 – 35 Optimum
Maximal relative air humidity for application [%]	80 – 85%
Pay attention to the dew point limit	min. 3K > DP (dew point)

5. Physical Properties:	Data
Chemical Base	- Comp. A: MDI-Prepolymer Comp. B: Polyetheramine-polyol-Mixture
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259 0%
Solids content	DIN EN 827 / ASTM D-2697 100%
Colour	- miscellaneous (on request)
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878 Comp. A: 400 - 800 Comp B: 400 – 800
Density [g/cm ³] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217 Comp. A: 1,09 – 1,13 Comp. B: 0,98 – 1,02
Density [g/cm ³]	EN ISO 1183 / ASTM D-792 1,00 – 1,04
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638 ≥ 8
Modul [MPa]	ISO 37-2005 / ASTM D-638 100% Elongation: ≥ 5 300% Elongation: -
Elongation at break [%]	ISO 37-2005 / ASTM D-638 ≥ 250
Hardness [Shore A]	ISO 868-2003 / ASTM D-2240 65 ± 5
Rebound resilience [%]	ISO 4662 / ASTM ≥ 23
Tear growth resistance[N/mm]	ISO 34-1 method A ≥ 8
Volume abrasion [mm ³]	DIN ISO 4649 ≤ 350
Taber Abrasion [mg]	ASTM D-4060 5 (Wheel CS17 / 1.000g / 1000 Cycles) 85 (Wheel H18 / 1.000g / 1000 Cycles)
Peel off strength [N/mm]	ISO 813 / ASTM Concrete: ≥ 4 Steel: ≥ 8
Pull off strength [N/mm ²]	DIN EN ISO 4624 / ASTM D-4541 Concrete: ≥ 1,5 Steel: ≥ 6
Max. Process temp. [°C]	ISO 11346 / ASTM D-2485 Wet: 40 Dry: 75 Peak temperature dry: 100

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5. Physical Properties:	Data	
Water absorption [%]	ASTM D-570	≥ 1.4
Heat Conductivity [W/m*K]	-	0,245
Surface resistance [Ohm]	DIN IEC 60167	≥ 1,0*10 ¹²
Volume resistance [Ohm]	DIN IEC 60093 / ASTM D - 257	≥ 6,0*10 ¹²
Storage conditions [°C]	DIN EN 12701 / ASTM	10 – 30 C (in closed original drums, stored at dry and well ventilated place; beware of freezing)
Shelf life	-	Approximately 12 months

*) All datas measured at 25C @ 50%rH. Meanderings at different ambience- and processing parameters have to be taken into account.

6. Application Notes:

The drying times depend on the climate and environmental influences, e.g. ambient temperature, substrate temperature, relative humidity and ventilation etc.

Therefore the times specified can only be used as guidelines. The exact times have to be determined by testing on site.

*Aromatic Coating Systems are UV-stable but are **not colour stable**. The cured coating system may exhibit discoloration when exposed to sunlight.*

VIP recommends that in applications where QuickCoat LP 65 will be exposed to high levels of UV (Such as a roof top) it should be top coated with a VIP top coat to stop surface chalking and discoloration.

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7. Form of delivery:

Product name	Unit	Ref.-No.
QuickSeal LP 65 Comp. A	20L pails and 200L drums	On Request
QuickSeal LP 65 Comp B	20L pails and 200L drums	On Request

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein is the only one which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and VIP GmbH makes no claim that these tests or any other tests, accurately represent all environments.

The laws of the purchaser regarding of the quality of our materials follows completely our general terms and conditions. For requirements, which exceed the scope of the above mentioned applications, contact our technical staff.

Valid is only the actual version of this technical data sheet in each case.

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