

QUICKSEAL

MP 250 FOR APPLY WITH HP & LP MACHINES

1. DESCRIPTION

QuickSeal MP 250 is an instant curing flexible **Waterproofing** membrane that can be built to any thickness in one application. **QuickSeal MP 250** is an economical alternative to QuickSeal PP 350 for applications that are not subject to extreme climatic conditions.

QuickSeal MP 250 provides a permanently flexible, seamless Waterproofing solution for a wide range of substrates. Its rapid application and instant curing characteristics enable shorter shut down times than traditional Waterproofing products.

QuickSeal MP 250 is specially formulated and designed for different options of application techniques, which allows to apply this material by plural component hot spray high pressure or with cold spray low pressure machines like VIP's LP-2. So therefore the operator can select the adequate application technique for the specific job and project size.

2. FEATURES

✓	Excellent cost to benefits ratio
✓	Extremely fast application time
✓	Hot spray high pressure or cold spray low pressure application is possible
✓	Tack free in seconds – walk on in minutes
✓	Rapid return to service saves time and money
✓	Seamless Waterproofing. No welding of joints – totally seamless
✓	Excellent adhesion to nearly all substrates - concrete, steel, aluminium, wood, foam etc.
✓	Can transgress multiple substrate types in one application
✓	Good tensile and structural strength
✓	No need to use protector boards when back filling
✓	100% solids, VOC-free, Solvent free
✓	Good abrasion resistance
✓	Good impact resistance
✓	Excellent thermal stability

3. TYPICAL USES

- ✓ Large scale **Waterproofing** for Commercial, Industrial & manufacturing facilities
- ✓ **Waterproofing** of high impact areas. – Plant rooms, trafficable roof decks
- ✓ **Waterproofing** for areas exposed to high wind abrasion
- ✓ **Waterproofing** of water features, pools and ponds
- ✓ Under concrete screed **Waterproofing** of large scale podium decks
- ✓ Bridge, street and tunnel construction **Waterproofing**
- ✓ Waterproofing and containment applications where high humidity and high levels of residual moisture are not factors to be considered during application
- ✓ Perfect sprayable elastomeric lining for overcoating of EPS, XPS and similar foam based basic bodies
- ✓ Roof top waterproofing – green roof
- ✓ Truck bed linings, flooring areas of trucks and commercial vehicles
- ✓ Mobile homes and caravan roofs
- ✓ Industrial chutes, hoppers, bins – sand and gravel equipment
- ✓ Transportable market stalls – floors and wet areas

QUICKSEAL

MP 250 FOR APPLY WITH HP & LP MACHINES

4. PROCESSING PROPERTIES	DATA
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume
Material consumption [kg/m ² /1mm]	Approx. 1
Recommended thickness [mm]	Minimum: 1.5 Maximal: unlimited
Gel time at 20°C [sec.]	12 - 17 (LP-2: 20) (dependent on ambient and substrate temperature)
Tack Free-Time at 20°C [sec.]	15 - 30 (LP-2: 40-60) (dependent on ambient and substrate temperature)
Over coat cycle [h]	0 - 12 Hours (without prep and priming)
Curing/loading after [h]	Foot traffic: 1 Mechanical: 2-4 Chemical: 12-24
Temperature range for application (ambience) [°C]	-10 - +50
Temperature range for application (substrate) [°C]	-10 - +50
Material Temperature (Preconditioning) [°C]	25 - 30
Material Temperature (Spraying) [°C]	65 - 75
Maximal relative air humidity for application [%]	80 - 85
Pay attention to the dew point limit	min. 3K > DP (dew point)

QUICKSEAL
MP 250 FOR APPLY WITH HP & LP MACHINES

5. PHYSICAL PROPERTIES	DATA	
Chemical Base	-	Comp. A: MDI-Prepolymer Comp. B: Polyetheramine and Polyol-Mixture
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%
Solids content	DIN EN 827 / ASTM D-2697	100%
Colour	-	Straw / Brownish colour un-pigmented
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 300 – 700 Comp B: 650 – 950
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 ± 0,02 (LP-2: 1,02 ± 0,02)
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638	≥ 14 (LP-2: ≥ 13)
Modul [MPa]	IISO 37-2005 / ASTM D-638	100% Elongation: ≥ 8 (LP-2: ≥ 8)
Elongation at break [%]	ISO 37-2005 / ASTM D-638	200 - 250 (LP-2: 200 - 250)
Hardness [Shore A]	ISO 868-2003 / ASTM D-2240	90 ± 5 (LP-2: 90 ± 5)
Hardness [Shore D]	ISO 868-2003 / ASTM D-2240	40 ± 5 (LP-2: 40 ± 5)
Rebound resilience [%]	ISO 4662 / ASTM	≥ 38 (LP-2: ≥ 25)
Tear growth resistance [N/mm]	ISO 34-1 method A	≥ 10 (LP-2: ≥ 10)
Volume abrasion [mm ³]	DIN ISO 4649	≤ 200 (LP-2: ≤ 250)
Taber Abrasion [mg]	ASTM D-4060	<5 (Wheel CS17 / 1.000g / 1000 Cycles) (LP-2: < 10) < 95 (Wheel H18 / 1.000g / 1000 Cycles) (LP-2: < 110)
Peel off strength [N/mm]	ISO 813 / ASTM	Concrete: ≥ 3 Steel: ≥ 6
Pull off strength [N/mm ²]	DIN EN ISO 4624 / ASTM D-4541	Concrete: ≥ 1,5 Steel: ≥ 4
Max. Process temp. [°C]	ISO 11346 / ASTM D-2485	Wet: 45 (LP-2: 40) Dry: 90 (LP-2: 90) Peak temperature dry: 120 (LP-2: 110)
Min. Process temp. [°C]	ISO 11346 / ASTM D-2485	- 40 (LP-2: -40)
Heat Conductivity [W/m*K]	-	0,245
Surface resistance [Ohm]	DIN IEC 60167	≥ 1,0*10 ¹¹
Volume resistance [Ohm]	DIN IEC 60093	≥ 1,0*10 ¹¹
Storage conditions [°C]	DIN EN 12701 / ASTM	10 – 30 (in closed original drums, stored at dry and well ventila- ted place; beware of freezing)
Shelf life	-	Approximately 12 months

*) All data measured at 77°F @ 50%RH. Meanderings at different ambience- and processing parameters have to be taken into account.

6. APPLICATION NOTES

The gel times and tack free times depend on the surrounding climatic conditions and the temperature of the substrate, e.g. ambient temperature, substrate temperature, relative humidity and ventilation etc.

Therefore the data specified above can only be used as a guide.

Aromatic Polyurea Coating Systems are UV-stable but are not color stable. The cured coating system may exhibit discoloration when exposed to sunlight. This does not influence the physical properties of the material

7. FORM OF DELIVERY

Please see our price list for respective packaging units.

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 user's responsibility to satisfy himself, by his own information and testing, to determine the 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. These products require specialized equipment and skills to apply. It is the purchaser's responsibility to ensure that they have the necessary equipment, skills and experience to apply these products. 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. Technical and application information is provided for the purpose of establishing a general profile of the material and application parameters. Test performance results were obtained in a controlled environment and VIP makes no claim that these tests or any other tests can be accurately reproduced in all environments.

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

VIP reserves the right to change or modify the details and data contained herein at any time.

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

© Copyright, VIP, QSL MP250

Version: February 2018-002