TECHNICAL DATA SHEET

QUICKSEAL MP 250

MODIFIED POLYUREA FOR APPLY WITH HP & LP MACHINES

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 PP350 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 applica- tion 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 ma- terial 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.

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

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 bodys 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

VIP Coatings International GmbH & Co. KG
www.vip-coatings.com

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PROCESSING PROPERTIES

INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume
Material consumption [kg/m²/1mm]	Approx. 1.0
Recommended thickness [mm]	Minimum: 1.5 Maximum: indefinite
Gel time at 25°C [sec.]	12 - 17 (LP-2: 20) (dependent on ambient and substrate temperature)
Tack Free-Time at 25°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]	Walkable: 1 Mechanical: 2-4 Chemical: 12-24
Temperature range for application (ambient) [°C]	0- +50
Temperature range for application (substrate) [°C]	
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)

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PHYSICAL PROPERTIES

INFORMATION ABOUT THE USE OF THE PRODUCT

	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%
Color	–	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/cm³] @ 20° C	DIN EN ISO 2811-2 / ASTM D-1217	Comp. A: 1,09 – 1,13 Comp. B: 0,98 – 1,02
Density [g/cm³]	EN ISO 1183 / ASTM D-792	1,00 ± 0,02 (LP-2: 1,02 ± 0,02)
Tensile strength [MPa]	ISO 37 / ASTM D-638	⩾ 14 (LP-2: ⩾ 13)
Modul [MPa]		100% Elongation: 8 (LP-2: ⩾ 8)
Elongation at break [%]		200 - 250 (LP-2: 200 - 250)
Hardness [Shore A	ISO 868 / ASTM D-2240	90 ± 5 (LP-2: 90 ± 5)
Hardness [Shore D]		40 ± 5 (LP-2: 40 ± 5)
Rebound resilience [%]	ISO 4662 / ASTM D-7121	⩾ 38 (LP-2: ⩾ 25)
Tear growth resistance[N/mm]	ISO 34-1 method A	⩾ 10 (LP-2: ⩾ 10)
Volume abrasion [mm3]	DIN ISO 4649	⩽ 200 (LP-2: ⩽ 250)

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PHYSICAL PROPERTIES

INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA	
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 D-903	Concrete: ⩾ 3 Steel: ⩾ 6
Pull off strength [N/mm²]	DIN EN ISO 4624 / ASTM D-4541	Concrete: ⩾ 1,5 Steel: ⩾ 4
Min. Process temp. [°C]	ISO 11346 / ASTM D-2485	- 40 (LP-2: -40)
Max. Process temp. [°C]		Wet: 45 (LP-2: 40) Dry: 90 (LP-2: 90) Peak temperature dry: 120 (LP-2: 110)
Heat Conductivity [W/m*K]	–	0,245
Surface resistance [Ohm]	DIN IEC 60167	⩾ $1{,}0*10^{11}$
Volume resistance [Ohm]	DIN IEC 60093	
Storage conditions [°C]	DIN EN 12701	10 – 30 (in closed original drums, stored at dry and well ventilated place; beware of freezing)
Shelf life	–	Approximately 12 months

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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

FORM OF DELIVERY

Please see our price list for respective packaging units.

DISCLAIMER

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This technical specification supersedes all previous data sheets.

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