

## QUICKSEAL

## MP 500

**QuickSeal MP 500** is an instant curing flexible Waterproofing membrane that can be built to any thickness in one application.

**QuickSeal MP 500** is an economical alternative to QuickSeal PP 350 for applications that are not subject to extreme climatic conditions.

**QuickSeal MP 500** 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.

### FEATURES

- Excellent cost to benefits ratio
- Extremely fast application time
- 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

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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/m <sup>2</sup> /1mm]      | Approx. 1.0  |
| Recommended thickness [mm]                         | Minimum: 1.0<br>Maximum: indefinite                      |
| Gel time at 25°C [sec.]                            | 10 - 15(dependent on ambient and substrate temperature)  |
| Tack Free-Time at 25°C [sec.]                      | 15 - 30 (dependent on ambient and substrate temperature) |
| Over coat cycle [h]                                | 0 - 12 Hours (without prep and priming)                  |
| Curing/loading after [h]                           | Walkable: 1<br>Mechanical: 2-4<br>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)                                 |

## PHYSICAL PROPERTIES

## INFORMATION ABOUT THE USE OF THE PRODUCT

|                                      | DATA                             |  |
|--------------------------------------|----------------------------------|--|
| Chemical Base                        | -                                | Comp. A: MDI-Prepolymer Comp. B: Polyolamin 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<br>Other colours on request |
| Viscosity [mPa*s] @ 25° C            | DIN EN ISO 2884-2 / ASTM D-4878  | Comp. A: 300 – 900<br>Comp. B: 700 – 1.200                       |
| Density [g/cm <sup>3</sup> ] @ 20° C | DIN EN ISO 2811-2 / ASTM D-1217  | Comp. A: 1,09 – 1,13<br>Comp. B: 0,99 – 1,03                     |
| Density [g/cm <sup>3</sup> ]         | EN ISO 1183 / ASTM D-792         | 0,99 ± 0,02  |
| Tensile strength [MPa]               |                                  | ≥13  |
| Modul [MPa]                          | ASTM D-412                       | 100% elongation ≥ 7<br>300% elongation: ≥ 10                     |
| Elongation at break [%]              |                                  | 450  |
| Hardness [Shore A]                   |                                  | 89 ± 5   |
| Hardness [Shore D]                   | ISO 868 / ASTM D-2240            | 35 ± 5   |
| Rebound resilience [%]               | ISO 4662 / ASTM D-7121           | ≥ 38   |
| Tear growth resistance[N/mm]         | ISO 34-1 method A                | ≥ 17   |
| Volume abrasion [mm <sup>3</sup> ]   | DIN ISO 4649                     | no datas available   |

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### INFORMATION ABOUT THE USE OF THE PRODUCT

|  | DATA                          |   |
|--|-------------------------------|---|
| Taber Abrasion [mg]                    | ASTM D-4060                   | < 10 (Wheel CS17 / 1.000g / 1000 Cycles)<br>< 110 (Wheel H18 / 1.000g / 1000 Cycles)            |
| Fire Protection Classification         | ASTM E-108                    | Class A ( Spread of flame/ slope 1:12)  |
| Peel off strength [N/mm]               | ISO 813 / ASTM D-903          | Concrete: ≥ 3<br>Steel: ≥ 6   |
| Pull off strength [N/mm <sup>2</sup> ] | DIN EN ISO 4624 / ASTM D-4541 | Concrete: ≥ 1,5<br>Steel: ≥ 4   |
| Min. Process temp. [°C]                | ISO 11346 / ASTM D-2485       | - 40  |
| Max. Process temp. [°C]                |                               | Wet: 50<br>Dry: 110<br>Peak temperature dry: 130  |
| Heat Conductivity [W/m*K]              | -                             | 0,245   |
| Surface resistance [Ohm]               | DIN IEC 60167                 | ≥ 1,0*10 <sup>11</sup>  |
| 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   |

#### **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.

#### **FORM OF DELIVERY**

**Please see our price list for respective packaging units.**

#### **DISCLAIMER**

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#### **ISSUE DATE: MARCH 2020**

This technical specification supersedes all previous data sheets.