

## QUICKSEAL PP 350

### 1. DESCRIPTION

QuickSeal PP 350 is a spray applied, instant curing flexible membrane that can be built to any thickness in one application. QuickSeal PP 350 sits at the top of our QuickSeal range of waterproofing and containment membranes. Due to its unique chemistry it can be applied in virtually any environmental conditions. Very cold, very hot or even very humid environments will not negatively impact on the curing time or physical performance of QuickSeal PP 350.

QuickSeal PP 350 provides a flexible, seamless, hard wearing substrate protection solution for a wide range of substrates. Its rapid spray application and instant curing characteristics enable shorter shut down times than traditional glue in place rubber membranes or fix in place jointed panel products.

QuickSeal PP 350 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

- ✓ Can be applied even under extreme climatic conditions. Hot, cold and humid conditions
- ✓ Good elongation at break.
- ✓ Good tensile strength.
- ✓ Seamless Waterproofing and liquid containment. No welding of joints – totally seamless.
- ✓ Seamless application and seamless finish. No welded joints or glued seams.
- ✓ Excellent adhesion to concrete, steel, aluminum, plastics, fibers, wood, foam etc.
- ✓ Can be applied across multiple substrates in the same application process.
- ✓ Remains flexible under a wide range of climatic conditions.
- ✓ Rapid application to any thickness and very fast cure results in faster turnaround times.
- ✓ Can build to any thickness in one application. Does NOT require multiple coats.
- ✓ 100% solids, VOC-free, contains zero solvents

### 3. TYPICAL USES

- ✓ Large scale Waterproofing for Commercial, Industrial & manufacturing facilities.
- ✓ Sealing and substrate protection. – Plant rooms, trafficable roof decks.
- ✓ Waterproofing and substrate protection for areas exposed to high wind abrasion.
- ✓ Waterproofing of water features, pools and ponds with high levels of residual substrate moisture.
- ✓ Under concrete screed waterproofing of large scale podium decks where residual moisture exists.

## BP TECHNOLOGIES

A Division of BIG PIX GRAPHIC SYSTEMS, INC.  
1427 Pablo Ocampo Sr. Avenue, San Antonio Village,  
1203, Makati City, PHILIPPINES  
Telefax No.: (+632) 551-1741



- ✓ Bridge, street and tunnel waterproofing particularly in high moisture environments.
- ✓ Lining of non-potable water tanks, waste water tanks.
- ✓ Loading docks and access ramps.
- ✓ For all waterproofing containment applications where there are no aggressive chemicals and or abrasive forces. For aggressive chemicals and / or high abrasion and impact loads please refer to our QuickSpray Industrial and QuickSpray Supreme range of products.

4. PROCESSING PROPERTIES	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: 1mm on steel Max: unlimited 1.5mm on concrete
Gel time at 20°C [sec.]	5 - 10 (dependent on ambient and substrate temperature)
Tack Free-Time at 20°C [sec.]	15 - 30 (dependent on ambient and substrate temperature)
Over coat window [h]	0 – 10 hours (without prep and priming)
Curing/loading after [h]	Walkable: 1 Mechanical: 2 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]	70-80
Maximal relative air humidity for application [%]	98
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-Mixture
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%
Solids content	DIN EN 827 / ASTM D-2697	100%
Colour	-	Natural colour is a straw / brownish colour. Un-pigmented.
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 300-1000 Comp B: 600 – 1.350
Density [g/cm <sup>3</sup> ] @ 20°C	DIN EN ISO 2811-1 / ASTM	Comp. A: 1,09 – 1,13 Comp. B: 0,98 –

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	D-1217	1,02
<b>Density [g/cm<sup>3</sup>]</b>	EN ISO 1183 / ASTM D-792	1,02 ± 0,02
<b>Tensile strength [MPa]</b>	ISO 37-2005 / ASTM D-638	≥ 17 (LP-2: 12,2)
<b>Modul [MPa]</b>	IISO 37-2005 / ASTM D-638	100% Elongation: ≥ 8 (LP-2: 7,5) 300% Elongation: 13
<b>Elongation at break [%]</b>	ISO 37-2005 / ASTM D-638	300-350 (LP-2: 200 - 250)
<b>Hardness [Shore D]</b>	ISO 868-2003 / ASTM D-2240	40 ± 5 (LP-2: 37 ± 5)
<b>Rebound resiliance [%]</b>	ISO 4662 / ASTM	≥ 32 (LP-2: ≥ 33)
<b>Tear growth resistance [N/mm]</b>	ISO 34-1 method A	≥ 15 (LP-2: ≥ 17)
<b>Volume abrasion [mm<sup>3</sup>]</b>	DIN ISO 4649	≤ 250
<b>Taber Abrasion [mg]</b>	ASTM D-4060	< 8 (Wheel CS17 / 1.000g / 1000 Cycles) < 80 (Wheel H18 / 1.000g / 1000 Cycles)
<b>Peel off strength [N/mm]</b>	ISO 813 / ASTM	Concrete: ≥ 4 Steel: ≥ 8
<b>Pull off strength [N/mm<sup>2</sup>]</b>	DIN EN ISO 4624 / ASTM D-4541	Concrete: ≥ 1.5 Steel: ≥ 5
<b>Max. Process temp. [°C]</b>	ISO 11346 / ASTM D-2485	Wet: 45 Dry: 90 Peak temperature dry: 120
<b>Min. Process temp. [°C]</b>	ISO 11346 / ASTM D-2485	- 40
<b>Heat Conductivity [W/m*K]</b>	-	0.245
<b>Sound absorption</b>	-	> 10 dB (A)
<b>Surface resistance [Ohm]</b>	DIN IEC 60167	≥ 1,0*10 <sup>11</sup>
<b>Volume resistance [Ohm]</b>	DIN IEC 60093	≥ 1,0*10 <sup>11</sup>
<b>Storage conditions [°C]</b>	DIN EN 12701	10 – 30 (in closed original drums, stored at dry and well ventilated place; do not allow to freeze)
<b>Shelf life</b>	-	Approximately 12 months

### 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 colour stable. The cured coating system may exhibit discoloration when exposed to sunlight. This does not influence the physical properties of the material.

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\* VIP recommends that in all applications involving chemicals a pre-test of the linings suitability in the customer's application is conducted. Consult with VIP Technical Team.

### 7. FORM OF DELIVERY

Please see our price list for respective packaging units.

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