



# DELTAshield PROSeal

Two component, hand applied, rapid curing polyurea waterproofing membrane.

### DESCRIPTION

**DELTAshield PROSeal** is a hand applied, cold cured polyurea waterproofing membrane with very rapid cure times and excellent elongation.

**DELTAshield PROSeal** provides significant application advantages due to its speed of cure and hence rain resistance. It can be walked on in minutes eliminating physical damage risk from follow on trades or clean-up activities.

**DELTAshield PROSeal** is a two component, moisture tolerant, easy to apply, flexible, seamless, waterproofing solution for a wide range of waterproofing applications. Its exceptional physical characteristics allow for very thin dry film thicknesses resulting in less material consumption than traditional 1K moisture cured polyurethanes.

**PROSeal** does not require reinforcing mesh or other strengthening products decreasing application times and labour costs.

***Simply mix, stir, pour and spread.***

### TYPICAL USES

- ✓ Waterproofing of roof tops.
- ✓ Waterproofing of balconies, terraces and verandas
- ✓ Over coat waterproofing of old bitumen felts, asphalt felts, EPDM, PVC membranes and acrylics.
- ✓ General construction waterproofing.
- ✓ Waterproofing under plant and equipment on roof tops.
- ✓ Waterproofing of wet areas under tile applications.
- ✓ Repairing mechanical damage of hot sprayed Polyurea lining systems.

### FEATURES

- ✓ Simple application – Squeegee / rake trowel, roller or brush
- ✓ Provides waterproofing properties within 30 minutes of application. Minimizes bad weather damage after application.
- ✓ Completely seamless membrane. Zero welds, overlaps or joins.
- ✓ Cold applied and cold cured. No requirement for specialized application equipment.
- ✓ Can be applied over the top of old existing waterproofing systems.
- ✓ Conforms exactly to substrate shapes eliminating potential stress points when covering with final floor slabs or other toppings such as pavers.
- ✓ Excellent crack bridging properties.
- ✓ Excellent adhesion to nearly all substrates - concrete, steel, aluminum, wood, foam etc.
- ✓ Can transgress multiple substrate types in one application.
- ✓ Mechanical damage can be easily repaired.
- ✓ 800% elongation.
- ✓ 100% solids, VOC-free, Solvent free
- ✓ Good abrasion resistance
- ✓ Good impact resistance
- ✓ Excellent thermal stability





### PRODUCT INFORMATION

PROCESSING PROPERTIES	DATA	
Mixing ratio of Comp. A to Comp. B	1:1 BY WEIGHT	
Material consumption [kg/m <sup>2</sup> /1mm]	Approx. 1 – 1.1	
Recommended thickness per layer	0.5 – 1mm	
Recommended membrane thickness [mm]	Exposed: 1 – 1.5mm	Non-exposed 0.5 – 1 mm
Rain resistance time (approx.)	30 minutes.	
Over coat window [h]	30 minutes - 12 hours	
Curing/loading after	Foot traffic: 30 – 60 minutes	Mechanical: 12 hours
Full cure	5 days	
Temperature range for application (ambient) [°C]	0 – 50 C	

**Note:** All data depends on site conditions. Ambient temperatures, substrate temperatures and humidity will all have an effect on stated data. Film thickness and application techniques can also affect the stated data. Cold temperatures will result in slower curing times and high temperatures will increase reactivity and reduce curing times relative to the stated data.

PHYSICAL PROPERTIES	DATA	
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%
Solids content	DIN EN 827 / ASTM D-2697	100%
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638	≥ 6
Elongation at break [%]	DIN 52455 / ASTM D-412	800
Hardness [Shore A]	ISO 868-2003 / ASTM D-2240	70
Abrasion resistance	ASTM D-4060	10 milligrams
Resistance to mechanical damage by static impression	In house lab	High resistance
Resistance to water pressure	DIN EN 1928	No leak (1m water column 24 hours)
Crack bridging	In house lab	4 mm
Service temperature	In house lab	-40C to +90C
Pull off strength [N/mm <sup>2</sup> ]	ASTM D-903	Concrete: ≥ 1.5 (Concrete failure)
Storage conditions [°C]	DIN EN 12701	10 – 30 (Avoid product freezing)
Shelf life		Approximately 12 months unopened and stored correctly

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





### APPLICATION NOTES

- All substrates should be thoroughly cleaned and properly prepared before applying **DELTAShield PROSeal**. Consult with DELTA technical department for substrate preparation requirements and methods.
- It is recommended to seal porous low-quality concrete surfaces with **DELTAShield 2K SF** primer before applying **DELTAShield PROSeal**.
- Stir the contents of the B-side component container using a slow RPM stirrer. Avoid using a high-speed stirrer and introducing air into the **DELTAShield PROSeal**.
- Combine the B-side component and the A-side component at the specified ratio by volume and stir the combined product using a slow RPM stirrer.
- Pour the **DELTAShield PROSeal** onto the prepared substrate and spread using a rake trowel, roller or brush.
- If a slip resistance surface finish is required broadcast clean dry quartz aggregates into the final layer of **DELTAShield PROSeal** whilst it is still wet. NOTE – do not incorporate aggregates throughout all layers of **DELTAShield PROSeal** – only the final layer or in the top surface.

### SAFETY AND HANDLING

- All applicators of **DELTAShield PROSeal** should be trained and approved by the manufacturer.
- Wear suitable respiratory protection when using.
- Avoid eye and skin contact.
- Store chemical drums in a cool dry environment. Avoid storing chemicals for long periods in direct sunlight.
- Do not store chemicals next to food stuffs.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture.
- Once the container has been opened all the contents should be used.

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 investigations and testing, 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. Due to the large number of variables that can affect the product and the application process that are out of the control of DELTA Coatings International LLC no warranty of any kind, express or implied is given. The liability of DELTA Coatings International LLC for any claims is limited to the purchase value of the material.

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