

DELTA Shield PROSeal



T E C H N I C A L D A T A S H E E T

Two component cold applied rapid curing polyurea waterproofing membrane

Description

PROSeal is a roller or squeegee applied, cold curing, aromatic polyurea membrane with very rapid cure times and high elongation features.

PROSeal provides significant application advantages due to its speed of cure and hence rain resistance. It can be walked on in minutes eliminating damage risk from ongoing site works.

PROSeal is a two component, moisture tolerant, flexible, seamless, high quality waterproofing solution for a wide range of applications. Its exceptional physical properties allow for thin dry film thicknesses resulting in lower material consumption compared to conventional polyurethanes.

M I X



P O U R



S P R E A D

Features

- Self leveling seamless membrane
- Cold applied and cold cured
- Can be optionally applied on top of old waterproofing systems
- Bonds directly onto substrate shapes, eliminating potential stress points when covering with final floor slabs or other toppings such as pavers
- Excellent crack bridging properties
- Provides waterproofing properties in thirty minutes of the application to minimize bad weather damage
- Excellent adhesion to most substrates
- Multiple substrate application in one go
- Easy repair of mechanical damages
- 800% elongation
- 100% solids, VOC-free, Solvent free
- Good abrasion resistance
- Good impact resistance
- Excellent thermal stability

Typical uses

- Internal or exposed roof waterproofing
- Balconies, terraces and verandas
- Planter boxes for anti-root
- Podium deck waterproofing
- Under MEP areas on roof tops
- Waterproofing of wet areas
- Repairing mechanical damages of existing coatings including hot spray DELTAShield range of membranes
- Underlay pool waterproofing



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PRO Seal



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Product information

Processing properties	Data	
Mixing ratio A : B [by volume]	1: 1	
Material consumption [kg/m ² /1mm]	Approx. 1 – 1.2	
Recommended thickness per layer [mm]	1 – 2	
Recommended membrane thickness [mm]	Exposed: 2	Non-exposed: 1.5
Rain resistance time [h]	1	
Over coat window [h]	1 - 12	
Curing/loading after [h]	Walkable: 1	Mechanical: 24
Full cure [days]	7	
Temperature range for application (ambient) [° C]	0 - 50	
Service temperature [° C]	-20 - +70	
Storage conditions (closed original drums, dry & covered place) [° C]	10 – 30	
Shelf life (unopened and stored correctly) [year]	1	

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Physical properties	Data	
VOC [g/L]	USEPA 24	0
Solids [%]	ASTM D-2697	100
Viscosity [mPa*s] @ 25° C	ASTM D-4878	Comp. A: 6000 – 8000 Comp. B: 2500 – 3000
Density [g/cm³] @ 25° C	ASTM D-1217	Comp. A: 1.04 – 1.07 Comp. B: 1.60 – 1.70
Tensile strength [N/mm²]	ASTM D-412-16(2021)	≥ 6 ± 2
Elongation at break [%]	ASTM D-412-16(2021)	700 ± 100
Hardness [Shore A]	ASTM D-2240-15(2021)	70 ± 5
Tear Strength [N/mm]	ASTM D-624-00(2020)	60 ± 5
Resistance to root penetration	TS 14416(2014)	No root penetration
Crack bridging ability [mm]	EN 1062-7:2004	3.2
Peel Strength [N/mm]	ASTM D-903-98(2017)	3.66
Pull off strength [N/mm²]	ASTM D-4541(2017)	Concrete: ≥ 1,5 Steel: ≥ 6
Water vapor transmission rate [g/m²/24hours]	ASTM E-96/E96M - 23	0.3231 (at 23° C a. 50% relative humidity)
Water tightness	ASTM C-1185-08(2016)	Pass; no water drops observed on the underside of the sheet

- DELTA recommends in all applications involving chemicals a pretest of the lining's suitability in the customer's application is conducted. Consult with DELTA Technical Team
- DELTAShield PROSeal is an aromatic based system & can display color shift under UV light. DELTA recommends the use of DELTAShield TC 100 aliphatic top coat for color stability
- All data depends on site conditions. Ambient temperatures, substrate temperatures and humidity will all influence 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

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Application notes

- All substrates should be thoroughly cleaned and properly prepared before applying **PROSeal**. Consult with DELTA technical department for substrate preparation requirements and methods
- It is recommended to seal porous low quality concrete surfaces with DELTA Prime range of primers before applying **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 **PROSeal**
- Combine the B side component and the A side component at the specified ratio by weight and stir the combined product using a slow RPM stirrer
- Pour **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 **PROSeal** whilst wet. *Do not incorporate aggregates throughout all layers; only the final layer

Safety & handling

- All applicators of **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

Technical services

- Detailed technical assistance and further information regarding this system and its relevant application specifications are available from DELTA Technical Services

Packaging

- **PROSeal** is supplied in 10 or 20 Liter sets
 - Component A : 5 or 10 Liter
 - Component B : 5 or 10 Liter

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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