CRES® POL PR-H

Two component, hand applied, polyurea waterproofing membrane

KANZ
Quality meets Chemistry

CRESPOL PR-H is a hand applied, cold cured polyurea waterproofing membrane with very rapid cure times and excellent elongation. **CRESPOL PR-H** is a two component, moisture tolerant, easy to apply, flexible, seamless, waterproofing solution for a wide range of waterproofing applications.

USES

- Waterproofing of roof tops.
- Waterproofing of balconies, terraces and verandas
- Over coat waterproofing of old bitumen felts, asphalt felts, EPDM, PVC membranes & acrylics.
- General construction waterproofing.
- Waterproofing under plant and equipment on rooftops.
- Sealing and protecting substrates from weather, impact, chemicals attack and abrasion.
- 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 water-proofing 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

TECHNICAL PROPERTIES

Description	Value	Standard
VOC-content	0%	DIN EN ISO 11890-1 / ASTM D-1259
Solid content,100%	100	DIN EN 827 / ASTM D-2697
Tensile strength @MPa	≥ 6	ISO 37-2005 / ASTM D-638
Elongation at break @ [%]	800	DIN 52455 / ASTM D-412
Hardness [Shore A]	70	ISO 868-2003 / ASTM D-2240
Abrasion resistance	10 milligrams	ASTM D-4060
Resistance to mechani-cal damage by static impression	High resistance	In house lab
Resistance to water pressure	No leak (1m water column 24 hours)	DIN EN 1928
Crack bridging ability	4mm	In house lab
Service temperature	-40°C to +90°C	In house lab
Pull off strength [N/mm²]	Concrete: ≥ 1.5 (Concrete failure)	ASTM D-903
Storage conditions [°C]	10 – 30 (Avoid product freezing)	DIN EN 12701

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

TECHNICAL DATA SHEET

Kanz Chemical Ind. LLC., PO. Box 78774, Sharjah, United Arab Emirates.
+971 6 5360 116 info@kanzme.com www.kanzme.com

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PROCESSING PROPERTIES

Description	Value
Mixing ratio of Comp. A to Comp. B	1:1
Material consumption [kg/m²]	Approx. 1 – 1.2
Recommended thickness per layer	0.5 – 1mm
Recommended membrane thickness @ mm	Minimum: 1 on concrete
Rain resistance time (approx.)	30 mins.
Over coat window [h]	30 mins - 12 hour
Curing/loading after	Foot traffic: 30 – 60 mins Mechanical: 12 hrs
Full cure	5 days
Temperature range for application (ambient) [°C]	0 to 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.

APPLICATION NOTES

- All substrates should be thoroughly cleaned and properly prepared before applying **CRESPOL PR-H.** Consult with KANZ technical team for substrate preparation requirements and methods.
- It is recommended to seal porous low-quality concrete surface with **CRESFLOOR PU 100** before applying **CRESPOL PR-H**
- 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 **CRESPOL PR-H**.
- 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 **CRESPOL PR-H** 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 **CRESPOL PR-H** whilst it is still wet. NOTE – do not incorporate aggregates throughout all layers of **CRESPOL PR-H** – only the final layer or in the top surface.

SAFETY AND HANDLING

- All applicators of **CRESPOL PR-H** should be trained and approved by the manufacturer. Wear suitable respiratory protection when using. Avoid eye and skin contact.
- Store the chemicals 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.

PACKING

CRESPOL PR-H is supplied in 20Kg kit.

SHELF LIFE

Approximately 12 months unopened and stored correctly.

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*Refer material safety data sheet (MSDS) for further information.

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