

CRESGUARD HYBRID

Hybrid, Sprayed, hot-applied polyurea waterproofing membrane



CRESGUARD HYBRID is a 2-component polyurea resin, which cures very fast into an elastic membrane with crack bridging capacity. This product can only be applied by 2-component spraying equipment. **CRESGUARD HYBRID** can be combined with different geotextiles to obtain on-site applied, seamless liners. It can be also pigmented with aluminum particles pigments to obtain sun-reflective properties. Highly resistant to meteorological phenomena, especially hail. Radon gas barrier which is naturally generated in the earth's crust.

USES

- Waterproofing for submersed structures.
- Waterproofing for cut and cover structures.
- Waterproofing on walkways and balconies.
- Waterproofing on floors and car park decks
- Water retaining structures in power plants.
- Tank, bund and pit lining in fresh water areas of sewage an waste water treatment plants.
- Truck bed lining



TECHNICAL PROPERTIES

Description	Value	Standard
Final state	Solid Elastomeric Membrane	-
Colour	Variable, depending on the chosen pigmentation.	-
Shore Hardness A	>91	ASTM D 2240
Elongation at break, %	>350	ASTM D 412
Tensile strength, MPa	>19	ASTM D 412
Adhesion Strength, MPa	>3.0	ASTM D 4541
Puncture resistance, N	1373	ASTM E 154
Abrasion resistance, mg/1000Cycles	8.0	ASTM D 4060
Tear Strength, N/mm	>84	ASTM D 624
Water Vapor Transmission, g/h.m ²	0.002	ASTM E96
Water Absorption, %	0.08	ASTM D 570

All values given are subject to 5-10% tolerance

SURFACE PREPARATION

Concrete substrates must be prepared mechanically using high pressure sand or abrasion, to remove the surface and obtain an open pore. Substrate must be primed and levelled until a regular surface is obtained. Sharp irregularities are eliminated using an abrading disc machine. Eliminate all dust and loose particles from the substrate by brushing or vacuum cleaning.

MIXING

Stir and homogenize separately both components using suitable mixing equipment before being loaded into the machine. Add the required pigment to the A-component (CRESGUARD HYBRID) and stir before loading at low speed for a few minutes. Excess stirring may lead to undesirable moisture pick up. Recirculate both components while heating up to the required application temperatures.

PACKING

CRESGUARD HYBRID is supplied in two drums of 400 kg. Part A - 200 kg Part B - 215 kg

TECHNICAL DATA SHEET

CRESGUARD HYBRID

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APPLICATION

CRESGUARD HYBRID must be applied using a two-component hot spraying equipment. Recommended temperatures are:

- Component A : 65°C
- Component B : 65°C
- Hose : 65°C
- Pressure should be 170 bar.

Wind speed of >25km/h may result in excessive loss of exotherm and interfere with the mixing efficiency of the spray gun affecting polyurea surface texture, cure and physical properties and will cause overspray issues.

CRESGUARD HYBRID is normally applied at 1.8-2.0 Kg/m² this corresponds to a thickness of 2.0-2.5mm.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste system. If the container still has some material left, do not mix with other product with no knowledge of potentially dangerous reactions. Component A and Component B may be mixed on a 1/1 ratio in order to get an inert material but never do it in volumes larger than 5 litres in order to prevent a dangerous heat evolution.

SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Shelf life of this product is 12 months from the date of manufacturing

HEALTH AND SAFETY

Component B contains isocyanates. Always follow the safety instructions in the Material Safety Data Sheet. As a general rule, a good ventilation and respiratory protection is needed (combined organic vapor filters + particles) along with protective clothing. This product must be used only for the applications here described. This product is intended for industrial and professional use. It is not suitable for DIY-type applications. Always use protective clothing, eye goggles and hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately cleaned with fresh water and medical attention sought.

Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

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

TECHNICAL DATA SHEET