Waterproofing - Polyurea

SmartCare Hypertron Hybrid Polyurea

Two component spray applied Elastic seamless general purpose pigmented Hybrid Polyurea Protective Lining Membrane with Extremely short curing Time

Description

SmartCare Hypertron Hybrid is a spray applied, instant curing colored flexible membrane formulated from hybrid Polyurea technology, that can be built to any thickness in single application.
SmartCare Hypertron Hybrid provides a flexible, seamless, hard wearing waterproofing membrane as a protection for a wide range of substrates with geometrically complicated connections and services- outlets and upturns. Its rapid spray application and instant curing characteristics enable shorter application times compared to traditional self-adhesive and torch applied membranes. The systems cure to yield seamless membranes with long-term flexibility while sealing around the most complex waterproofing details

Uses

- Roof and basement waterproofing and secondary containment application
- Car Park Decks
- Large scale Waterproofing for Commercial, Industrial application
- Waterproofing applications where high humidity and high levels of residual moisture can't be avoided during application
- Waterproofing for areas exposed to high wind abrasion
- Waterproofing of high impact areas. – Plant rooms, trafficable roof decks
- Bridges, Podium decks, Culverts and tunnels Waterproofing
- Waterproofing of water features, pools and ponds
- When using appropriate primer, it can be applied on steel, wood and Glass Reinforced Polyester

Characteristics

- Seamless Waterproofing. No welding of joints – totally seamless.
- Extremely fast application time
- Tack free in seconds – walk on in minutes
- Excellent cost to benefits ratio
- Rapid return to service saves time and money
- 100% solids, VOC-free, Solvent free
- Excellent thermal stability
- Good impact & abrasion resistance
- Conforms exactly to substrate shapes eliminating potential stress points when covering with final floor slab or other toppings such as pavers.
- Excellent adhesion to nearly all substrates - concrete, steel, aluminum, wood, foam etc.
- Can transgress multiple substrate types in one application
- Good tensile and structural strength
- No need to use protector boards when back filling

Product Data

Mixing Ratio of Component A to Component B by volume	1 : 1
Theoretical coverage @ 1 mm	1 Kg /m_
Recommended DFT For project specific DFT recommendations consult with manufacturer	Concrete – Min 2 mm and Max unlimited
	Steel – Min 1 mm and Max unlimited
Tack Free Time at 20°C	10 – 20 Sec

Over coating window	0 – 12 hrs. (without prep and primer)
Curing / loading after	Foot Traffic: 1 hrs. Mechanical: 2 hrs. Chemical : 12 – 24 hrs
Temperature range for application (ambient & substrate)	-10°C to +50°C
Material Temperature (Pre-conditioning)	25 – 30°C
Material Temperature (Spraying)	65 – 75°C
Maximum relative air humidity for application	80 – 85 %
Dew Point limit (critical)	Substrate should be 3°C greater than Dew Point

Mechanical & Physical Properties

VOC content , % DIN EN ISO 11890-1 / ASTM D 1259	0
Solid content , % DIN EN 827 / ASTM D 2697	100
Viscosity @ 25°C, mPa*s DIN EN ISO 2884-2 / ASTM D 4878	Comp A: 500 – 1000
Density @ 20°C, g/cm DIN EN ISO 2811-1 / ASTM D 1217	Comp B : 700 - 1200
Tensile Strength. Mpa ISO 37 – 2005 / ASTM D 638	Comp A: 1.11 ± 0.02
Elongation @ break, %	Comp B : 1.00 ± 0.02
ISO 37 – 2005 / ASTM D 638	
Hardness (Shore D) ISO 868 – 2003 / ASTM D 2240	_ 14
Tear growth resistance. N/mm ISO 34 – 1 method A	250
Taber Abrasion, mg (1Kg/1000 cycles) ASTM D 4060	40 ± 5
Pull O_ Strength, N/mm DIN EN ISO 4624 / ASTM D 4541	_ 10
Storage conditions, °C DIN EN 12701	CS17 wheel: < 10, H18 wheel : < 110
Shelf life	12 months unopened and correctly stored

Packing

425 kg sets

Chemical Properties

Component A – MDI Pre-polymer
Component B – Mixture of Polyether Amine & Polyol

Application Method

• SmartCare Hypertron Hybrid can only be applied using high pressure heated plural component spray equipment
by trained and approved applicators.
• In ambient temperatures below 15°C chemical drums should be pre-heated using band heaters to 30 – 40°C.
• The B-side component should be thoroughly power stirred prior to the commencement of spraying and periodically
during the spraying process to ensure there is no settling out of the B-side chemical components.
• The Pigment is always mixed into the B-side using a power stirrer.
• Both the A-side and B-side drums should be fitted with desiccant dryers.
• Compressed air supply should be supplied via an air dryer.
• Primary heaters should be set at between 65-75°C. Adjustments can be made on-site based on environmental
conditions, mixing module size and application circumstances.
• Hose heaters should be set at 70°C. Adjustments can be made on-site based on environmental conditions, mixing module size and application circumstances

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health & Safety Information

- All applicators of Smartcare Hypertron Hybrid should be trained and approved by the manufacturer.
- Spray applicators should wear appropriate PPE including approved breathing equipment, eye wear, Nylex or similar light weight spray suit and appropriate covered footwear.
- Avoid breathing in vapors during spraying or when handling chemicals.
- 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 stus.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture.
- Dispose safely as per local regulations.
- No added Lead, Mercury or Chromium compounds. For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

Version No. V01/23. Please note that this datasheet supersedes all previous versions UAE

For enquiries, feedback and complaints please contact or write to us at

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