

SMARTCARE HYPERTRON ULTRON POLYUREA

WATERPROOFING SOLUTIONS

Two component, hand-applied, polyurea waterproofing membrane.

PRODUCT DESCRIPTION

SmartCare Ultron Polyurea is a hand-applied, cold-cured Polyurea waterproofing membrane with very rapid cure times and excellent elongation. SmartCare Ultron Polyurea is a two component, moisture tolerant, easy to apply, flexible, seamless, waterproofing solution for a wide range of waterproofing applications. SmartCare Ultron Polyurea 2K is a two-component, cold-applied, Polyurea-based liquid membrane. The material cures rapidly and forms a highly durable, seamless, tough elastomeric waterproofing membrane in less than 2 hours. Can be applied with a brush, roller, squeegee, or airless spray in one or two coats. Simply mix, stir, pour, and spread.

KEY FEATURES

- **Simple Application:** The product is easy to apply using a squeegee, rake trowel, roller, or brush, requiring no specialized application equipment.
- **Rapid Weather Resistance:** It provides waterproofing properties within 30 minutes of application, which minimizes potential damage from bad weather shortly after installation.
- **Completely Seamless Membrane:** The coating forms a completely seamless membrane with zero welds, overlaps, or joins for a leak-proof finish.
- **Cold Applied and Cured:** It is cold applied and cold cured, eliminating the need for heating or complex machinery during the process.
- **Overlay Compatibility:** The product is versatile enough to be applied directly over the top of old existing waterproofing systems.
- **Substrate Conformance:** It conforms exactly to substrate shapes, eliminating potential stress points when covering with final floor slabs or other toppings like pavers.

- **Crack Bridging Properties:** The membrane features excellent crack bridging properties, including high static and dynamic crack-bridging capacity.
- **Universal Adhesion:** It offers excellent adhesion to nearly all substrates, including concrete, steel, aluminum, wood, and foam.
- **Multi-Substrate Versatility:** The coating can transgress multiple different substrate types in a single, continuous application.
- **Easy Repairability:** Any mechanical damage sustained by the membrane can be easily repaired to restore its integrity.
- **Extreme Elongation:** It features an elongation capacity of more than 800% (ISO 37), allowing for significant structural movement.
- **Eco-Friendly Formulation:** The product is 100% solids, VOC-free, and solvent-free, making it a sustainable choice.
- **Abrasion and Impact Resistance:** It provides good abrasion and impact resistance, ensuring durability against physical wear.
- **Thermal Stability:** The membrane exhibits excellent thermal stability, maintaining performance across a range of temperatures.
- **Chemical Resistance:** It offers excellent resistance to alkalis and diluted acids, protecting the substrate from chemical attack.
- **No Reinforcement Required:** The system is strong enough to be applied without the need for additional reinforcement layers.

PRODUCT BENEFITS



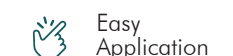
High Crack Bridging



Seamless Bonding



VOC Free



Easy Application

PACKAGING

Part A 7.5 kg | Part B 12.5 kg

TECHNICAL PROPERTIES

Properties	Value
Colour	Not available
Theoretical coverage	1.3 kg/m ² /1mm
Recommended thickness per layer	0.5 – 1 mm
Recommended membrane thickness	Minimum 1 mm on Concrete
Rain resistance time	Approx. 30 minutes
Over coat window	30 minutes - 12 hours
Mixing ratio of Comp. A to Comp. B	1:1
Ambient application temperature range	0 - 50°C
Curing/loading after	Foot traffic: 30 - 60 Minutes Mechanical: 12 hours Full cure: 5 days

PHYSICAL PROPERTIES

Properties	Value
VOC-content (DIN EN ISO 11890-1) / (ASTM D-1259)	0%
Solids content (DIN EN 827) / (ASTM D-2697)	100%
Tensile strength (ISO 37-2005) / (ASTM D-638)	≥ 6 MPa
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)	-40°C to +90°C
Pull off strength (ASTM D-903)	Concrete: ≥ 1.5 N/mm ² (Concrete failure)

*We recommend in all applications involving chemicals, a pre-test of the lining's suitability in the consumer's application is conducted. Consult Asian Paints Berger Technical Team.

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.

APPLICATION AREAS

- Waterproofing of roof tops.
- Waterproofing of balconies, terraces, and verandas
- Overcoat waterproofing of old bitumen felts, asphalt felts, EPDM, PVC membranes, and acrylics.
- General construction waterproofing.
- Waterproofing under plant and equipment on rooftops.
- Sealing and protecting substrates from weather, impact, chemical attack, and abrasion.
- Repairing mechanical damage of hot-sprayed Polyurea lining systems.
- Polyurethane insulation foams
- Bathrooms
- Verandas and balconies
- Light metal roofing made of metal or asphalt membranes.

APPLICATION METHOD

- All substrates should be thoroughly cleaned and properly prepared before applying SmartCare Ultron Polyurea.
- Clean the substrate using a high-pressure washer, if possible. Remove oil, grease, and wax contaminants. Cement laitance, loose particles, mould release agents, and cured membranes must also be removed. Consult with the Asian Paints Berger technical department for substrate preparation requirements and methods.
- Surface irregularities should also be filled.
- It is recommended to seal porous low-quality concrete surfaces with Apcoflor HFP 120 primer clear before applying SmartCare Ultron Polyurea.
- Stir the contents of the B-component container using a slow RPM stirrer.
- Combine the B-component and the A-component at the specified ratio by volume and stir the combined product using a low-speed mixer (300 rpm). Avoid using a high-speed stirrer and inducing air bubbles into the mix.
- Pour the SmartCare Ultron Polyurea 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 SmartCare Ultron Polyurea whilst it is still wet.

PRODUCT LIMITATIONS

Not available

STORAGE CONDITIONS

Store SmartCare Hypertron Ultron Polyurea in 10°C – 30°C and avoid product freezing.

SHELF LIFE

Approximately 12 months when kept unopened and stored under recommended conditions.

SAFETY PRECAUTIONS

- Always wear protective gloves, goggles, and clothing during mixing and application to prevent skin or eye irritation.
- Avoid direct contact with skin or eyes; in case of contact, wash the affected area with plenty of clean water.
- If inhaled, move the affected person to fresh air immediately and seek medical advice if discomfort persists.
- Ensure proper ventilation at the site of application to avoid inhalation of fumes.
- Keep away from heat, sparks, and open flames. Do not smoke during handling.

CERTIFICATIONS

SmartCare Hypertron Ultron Polyurea complies with DIN EN ISO 11890-1 / ASTM D-1259, DIN EN 827 / ASTM D- 2697, ISO 37-2005 / ASTM D-638, DIN 52455 / ASTM D-412, ISO 868-2003 / ASTM D-2240, ASTM D-4060, DIN EN 1928, ASTM D-903 and DIN EN 12701.

DISCLAIMER

The information provided in this Technical Data Sheet is based on laboratory tests, industry practices, and practical application experience. However, actual site conditions may vary and are beyond the manufacturer's control. Asian Paints makes no warranties, expressed or implied, and shall not be liable for any loss or damage resulting from improper usage, handling, or non-compliance with the recommended guidelines. Users are advised to test the product for suitability before full-scale application.