

# ProteckKote HU 100

## TWO COMPONENT HYBRID URETHANE ROOF AND DECK COATING

### DESCRIPTION

ProteckKote HU 100 is a Two-component fast curing, hybrid Urethane roof coating which upon curing forms a monolithic, flexible membrane, making it highly suitable for all types of waterproofing applications on various substrates. ProteckKote HU-100 has excellent adhesion on all suggested substrates and can also be applied on wet and damp surfaces.

### USES

ProteckKote HU-100 is a highly versatile protective coating designed for use on a diverse array of surfaces. It can be applied to concrete, metal, Spray Polyurethane Foam (SPF), Aged, Ethylene Propylene Diene Monomer (EPDM), Polyvinyl Chloride (PVC), and Thermoplastic Polyolefin (TPO) roofing membranes as a protective coating. Additionally, it is suitable for clay roof tiles, plywood, Built-Up Roofing (BUR) systems, and cap sheet etc providing adequate protection against ingress of water. It is also suitable for Deck Coating.

### MAIN FEATURES

- Good resistance to the ingress of water and vapor
- Excellent adhesion on wet and damp substrates
- High resistance to abrasion
- Low VOC : environmentally friendly
- Durable : Resistant to UV degradation
- Good Flexibility | Fast curing time (60mins at 77°F)
- Can be subjected to light foot traffic after full cure (7 days).

### TECHNICAL PARAMETER

Properties	Test Method	Value
Color	-	White/Grey#
Mixed density, (g/l)	ASTM D 1475	1.1±0.05
Solid content, (%)	ASTM D 1353	60
Pot life, (Hrs.)	-	6
VOC, (g/l)	USEPA 24	<10
Touch dry time, (mins)	-	1 hr
Initial Cure time, (mins)	-	45 mins [ skin over time]
Full cure, (Hrs.)	-	72 hrs
Tensile strength, psi	ASTM D 2370	380
Elongation, (%)	ASTM D 2370	300
Tear strength, lb/in	ASTM D 624	100
Solar reflectance, (%)	ASTM E 1549	≥75
Shore A Hardness	ASTM D 2240	45
Water Vapor transmission, (perms)	ASTM D 1653	7
Adhesion strength, (N/mm <sup>2</sup> )	ASTM D 4541	≥3 (cohesive failure of concrete)
Crack bridging ability, (mm)	ASTM C 836	≥4
Application temperature, (°F)	-	40-100
Service temperature, (°F)	-	-4 - 150

All Values are subjected to 5 to 10% variations  
# Other colors on request

### SUBSTRATE PREPARATION

Roof must have positive drainage. Roof substrate must be clean, completely dry, and free from any dirt and debris.. Power-wash to remove all dust and debris and allow to dry. Examine substrate and conduct adhesion test to verify adhesion of coating prior to start, pre-stripe all flashings and penetrations, and repair before coating application commences.

### MIXING

Pour the contents of Part B (placed inside the lid) into the Part A container and mix thoroughly with a proprietary 3"(76 mm) minimum diameter mixing blades for 2 to 3 minutes. Stop mixing and scoop the edge back to pail to ensure homogenous mixing before final mixing of 1 minute until uniform consistency is achieved.

### APPLICATION

ProteckKote HU-100 shall be applied in minimum of 2 coats. Apply The first coat of ProteckKote HU-100 on all areas with a brush / roller or spray at a coverage rate of 1.5 gallons/square. Dry Film Thickness (DFT) should be minimum of 22 mils. Apply the second coat in a perpendicular direction to the previous coat after the previous coat dries off. Allow at least four hours between coats and 24–48 hours for full cure, dependent upon weather conditions. Relative humidity will directly affect drying/curing time. Avoid over application. Application rates should be adjusted to meet each particular roofs specified requirements. Coverage rates are theoretical and do not take into account material loss due to surface texture.

**For Critical Areas:** It is recommended to pre- treat all areas prior to commencement of coating. Apply the first coat of ProtecKote HU-100 with a brush on all corners and around the pipe penetrations extending up to 8 Inch on either side. A fibre mesh/geotextile fleece shall be embedded into the coating whilst first coat is still in wet condition. Apply a second coat over it after the previous coat dries off.

**For Metal Roofs:** First , It is recommended to Inspect the Roof and Check for any damage or rust before Cleaning the roof to Remove dirt, debris, and algae using a pressure washer or stiff brush and finally to Ensure the roof is completely dry before proceeding to apply ProtecKote HU 100. It is important to note that if any panels are severely damaged, they may need to be replaced.

#### **FOR DECK APPLICATION**

#### **PREPARATION**

1. Wood Deck Boards & Plywood - Remove loose, flaky paint and rough sand the whole surface.
2. Secure raised nail heads, deck screws and loose boards. Replace damaged, rotting boards and remove loose splinters.
3. Concrete - Remove any loose, flaky paint, power wash and allow to fully dry.
4. Vinyl/PVC & Fiberglass - Remove loose, flaky paint. Scuff the surface with sandpaper to remove all shine and oxidized material. Wipe with a dampened, white rag soaked with Acetone to condition the surface right before you prime.
5. Masking - Use masking tape for areas not to be covered and remove immediately after application [ prior to full cure]

#### **MIXING**

Pour the contents of Part B (placed in the lid) into the Part A container and mix thoroughly with a proprietary 3"(76 mm) minimum diameter mixing blades for 2 to 3 minutes until a homogenous consistency is achieved.

#### **APPLICATION**

Apply a heavy coat of ProtecKote HU100 using a brush for edges, corners and between boards. Then apply to the whole surface area using a ¾" (10mm) roller and allow to dry. The Dry Film Thickness (DFT) should be a minimum of 22 mils per coat. Ensure the entire surface is protected.

**IMPORTANT NOTE:** Inspect for pinholes, blisters, voids, thin spots or other defects and repair as necessary. For best results remove existing paints/coatings and apply directly to the substrate. (Some paints and coatings will not be compatible) Loose/flaky paint may be an indication that the existing paint/coating is not well bonded and therefore ProtecKote HU100 may fail if applied over it instead of directly to the substrate. Oil based paints, enamels, epoxies, powder coats can be difficult to bond to. **DECK COATING Dry/Cure Time:** Allow 48-72 hours after the last coat for light foot traffic. Allow 5-7 days after the last coat before placing furniture on the coating.

#### **CLEANUP**

Clean tools with mineral spirits or paint thinner, if coating has dried. If coating is still wet, clean up with warm soapy water.

#### **STORAGE AND HANDLING**

Store under cover, out of direct sunlight and protect from extreme temperatures. Do not store at temperatures below 45°F and not greater than 120°F. Keep Containers covered when not in use. DO NOT allow coating to freeze. All the mixed material should be used within 90 Minutes at 68°F or 45 Minutes at 86°F.

#### **SHELF LIFE**

12 months from date of Manufacture when stored as per recommendation and in unopened conditions.

#### **DISPOSAL**

Cured ProtecKote HU-100 coatings are inert and can be disposed of in regular disposal areas. Unused materials and packaging materials should be disposed as per the local governing laws on disposal of hazardous goods.

#### **IMPORTANT**

Do NOT heat container  
DO NOT attempt to Dilute the product

#### **HEALTH AND SAFETY**

Protective gloves and safety glasses should be used. Wash thoroughly with plenty of water if eye and skin get contaminated and seek medical advice in extreme cases.

**Disclaimer:** All technical data of this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that because of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. Information on this datasheet is subject to change without notice and should not be used for writing specification. For additional information on specific applications, please contact Epilay Inc. The information contained herein, provides recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted based on the contents of this data sheet, or any verbal advice given, unless there is a case of willful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product. Epilay Inc reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request. All values given are subject to 5 – 10% tolerance. #Values achieved within 7 days after casting specimen at 25°C and 50% RH.

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