

Total Proof™ PU-HYBRID



THINNING
0-10%



COVERAGE
1,0-1,5 Kg/m²



APPLICATION
Brush, roller,
or airless gun



DRYING
3 hours

Elastomeric, liquid waterproofing membrane for flat roofs

- » Ideal roof waterproofing**
- » Non yellowing**
- » Resistance to standing water**
- » Great elasticity**
- » Enhanced mechanical strength**
- » Excellent reflectivity in solar radiation**
- » Resistance to user loads**

DESCRIPTION

Total Proof PU-HYBRID is a waterborne elastomeric, liquid waterproofing membrane with acrylic and polyurethane based resins for roofs. Its robust technology provides uniformity, excellent workability, resistance against standing water, and very good mechanical properties. At the same time, the new technology formula offers excellent waterproofing, elasticity, and great resistance to weather conditions. It is a cool material since its excellent whiteness is evaluated by the National Technical University of Athens, contributing to energy savings, limiting air conditioning loads during the summer.

A/c (WB) Exterior walls of mineral substrate.

- VOC Limit Value: 40g/L.
- Maximum content of VOC of the product in its ready to use condition: 39g/L.

FIELD OF APPLICATION

Total Proof PU HYBRID is used as a cool material and roof waterproofing membrane. It has excellent adhesion to horizontal surfaces made of concrete, cement mortar, etc. while at the same time it seals cracks since it has excellent elasticity and resistance to intense temperature variations.

TECHNICAL DATA

Density ISO2811 @ 25°C	1,28g/mL (±0,05)
Weight solids (w/w) ISO 3251	59% (±2)
Viscosity ASTM D 562-05 @ 25°C	130KU (±10)
pH	9,0 (±0,5)
Elongation at break (EN ISO 527)	>350%
Hardness SHORE A	52 (±10)
Accelerated weathering UVA+condensation/2000h (EN 1062-11)	Blistering: 0(S0) Cracking: 0(S0) Flacking: 0(S0)
Temperature variations resistance	-15°C – 90°C
Total solar reflectance TSR ASTM G173-03	0,85
Thermal emittance coefficient	0,86
Reflectance in the near infrared radiation RNIR, ASTM G173-03	0,88
Solar reflectance index SRI ASTM E1980-01	107
Consumption per layer	0,500 – 0,750 Kg/m ²
According to EN1504-2	
Adhesion EN1542	>1,5 N/mm ²
Capillary water absorption EN1062-3	<0.1Kg/m ² .h ^{0,5}
Permeability to CO ₂ EN1062-6	Sd >50m
Permeability to water vapour EN ISO7783	Sd <5m
Reaction to fire EN13501-1	E

Total Proof™ PU-HYBRID

Water-based, hybrid polyurethane / acrylic waterproofing membrane for roofs

DIRECTIONS FOR USE

- » **SUBSTRATE - PREPARATION:** Ensure even, clean, solid, free from standing water, dust, oil and loose elements substrate. For any necessary repairs for the proper preparation of the substrate, select the appropriate repair materials from KRAFT Paints product line. On absorbent substrates (e.g. concrete, cement, old tiles, etc.) prime with Total Proof Primer Aqua or alternatively with Eco Dur Aqua or Dur, by KRAFT Paints. On non-absorbent substrates (e.g. glossy tiles, mosaics, asphalt, etc.) prime with the transparent Kraft Epoxy Floor Primer Aqua.
- » **MIXING:** Dilute with water up to 10% for the first layer. No dilution is needed for the next layer(s).
- » **APPLICATION:** After proper preparation and priming of the substrate, Total Proof PU-HYBRID is applied in two layers crosswise by brush, roller, or airless gun. Surface drying time approx. 3 hours at 25°C and 50% relative humidity. The drying time between layers is approximately 16 - 24 hours (for 20-25°C). For severe cracks apply 3 coats of Total Proof PU-HYBRID, using locally and in between the first and second coats and when they are still fresh, the polyester tape Total Proof Tape 60. After the second coat has dried, apply the third and final coat crosswise.
- » **CLEANING:** Immediately after the application the tools must be cleaned with warm water and soap or a detergent solution. Remove as much material as possible from tools before cleaning.

IMPORTANT NOTES

Do not apply at temperatures below 5°C and above 35°C as well as at humidity levels above 65%. Do not apply in case of frost forecast for at least next 48 hours after application. Do not apply in case of impending rain or in direct intense sunlight and wind currents.

PACKAGING

It is available as white and brick red in 1Kg, 4Kg & 13Kg containers.

CONSUMPTION

The total consumption of Total Proof PU-HYBRID is approximately 1.0 – 1.5 Kg/m², depending on the type of substrate, method, tools and application conditions. In exceptional cases such as significantly uneven surfaces, the application of a third layer is recommended, requiring a total material consumption of approximately 2.0 – 2.25 Kg/m².

HEALTH, SAFETY & ENVIRONMENTAL INFORMATION


Carefully read and follow all cautions and warnings on product label. For further information refer to the Safety Data Sheet for this product.

Poison Centre Telephone:

+30 210 779377

STORAGE

Store the product at temperatures between 5°C and 35°C away from direct sunlight and rain, for a maximum of 24 months from the date of production. Keep containers tightly closed when not in use.

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DRUCKFARBEN HELLAS SA Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, greece	
24 DoP No 04.11 Total Proof PU-Hybrid EN 1504-2:2004 Coating (C) for surface protection of concrete structures according to principles 1(PI), 2 (MC) and 8 (IR)	
Reaction to fire	E
Permeability to CO ₂	S ₀ >50m
Permeability to water vapour	Class I
Capillary absorption and liquid water permeability	w < 0,1 kg / m ² h ^{0.5}
Adhesion strength by pull-off test	≥ 1.5 mm ²
Dangerous substances	See SDS

06/2024 THIS TECHNICAL DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS RELEVANT TO THIS PRODUCT

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DISCLAIMER: The above technical data, information, recommendations and guidance are based on scientific and technical knowledge, laboratory studies and long experience. However, the above information is considered to be as indicative and should be reviewed in any case in relation to each specific application conditions. Consequently, the suitability of each product in any application must be evaluated after referring to the updated Technical Data Sheet and to the website www.kraftpaints.com, as well as after contacting the technical support department, in case of necessity. Our company guarantees the quality of the product itself, whilst in any case the user/applicant is exclusively responsible for any undesirable failures after using the product.

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