

Total Proof PU-AQUA

Water-based polyurethane membrane
for protection
and waterproofing of flat roofs



THINNING
0%



CONSUMPTION
1.2-1.5Kg/m²



TOOLS
roller, brush,
airless
or air-assisted
spray gun



CE

DRUCKFARBEN HELLAS SA
Megaridos Ave. 19300 Aspropyrgos
16

DoP: 01-1220-3
EN 1504-2

Surface protection system-coating

Carbon dioxide permeability	Sd>50m
Water vapour permeability	Class I
Capillary absorption and liquid water permeability	w<0.1Kg/m ² h ^{0.5}
Bond strength	≥1.0N/mm ²
Dangerous substances	NPD
Reaction to fire	Euroclass F

KRAFT TOTAL PROOF PU AQUA is high performance water-based polyurethane waterproofing membrane special designed for superior weatherability and durability. Due to its unique formulation it forms a tough seamless, flexible and breathable shield having exceptional weatherability, mechanical, chemical and UV resistance.

Its elasticity and toughness properties accommodate substrate movement in varying weather conditions and it offers a high level of crack filling and bridging properties. It presents superior long-lasting resistance to dirt pick-up resulting high whiteness and solar reflectance over the years. It has a self-priming property when applied over most surfaces, it dries fast and it can be easily applied to flat and sloped roofs, including concrete, masonry and asphalt substrates. It is user and environmentally friendly waterborne formulation.

This coating is certified as cool coating and it provides an excellent, highly protective barrier which reflects the sun's heat. In turn, this helps to cool surfaces and leads to a reduction of interior temperatures and improvement to building's energy efficiency.

TECHNICAL DATA

Specific Gravity {ISO 2811}	1.38±0.02g/cm ³
Volume Solids	53-57%
Viscosity {ASTM D-562}	100-120KU
Theoretical Consumption*	1.2-1.5L/m ²
Adhesion {ASTM D903}	>1.5N/mm ²
Elongation at Break {ASTM D412}	>400%
Tensile Strength {ASTM D412}	>3.5MPa
Durometer Hardness (Shore A) {ASTM D2240}	60
Water Absorption w {EN 1062-3}	0.05Kg/m ² h ^{0.5} , class w ₃
Water-Vapour Permeability sd {EN ISO 7783-2}	< 2.40m, class I
Total Solar Reflectance, TSR {ASTM G173}	86% (White)
NIR Reflectance {ASTM G173}	91% (White)
Thermal Emission, ε {ASTM E408-71}	0.87
Solar Reflectance Index, SRI {ASTM E1980}	108

* Depends on substrate porosity, texture, painting conditions and application method.

VOC CONTROL



Exterior walls of mineral substrate A/c (W/B).

- 2010 EU VOC Limit Value: 40g/L
- Maximum content of VOC of the product in a ready to use condition: 39g/L

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SURFACE PREPARATION AND APPLICATION

- » To ensure proper adhesion to the substrate, the surface must be dry, clean and free of dust, oil, salt, rust, loose paint and residues, blistered paint etc. Maximum moisture content should not exceed 20%. Remove all moss, fungi and algae by mechanical abrasion and wash with soapy water and allow the substrate to dry.
- » It is recommended that fresh concrete, stucco, plaster and asphalt surfaces are allowed to dry for at least 4 weeks before the application of KRAFT TAOTAL PROOF PU AQUA.
- » Use suitable KRAFT sealant to fill joints and gaps.
- » Use suitable KRAFT repairing material to repair damaged surfaces.
- » On porous substrates (concrete, plaster) apply one coat of KRAFT ECO DUR AQUA diluted with 80% water and allow drying.
- » On non-porous substrates (tiles, fiberglass, steel) apply one coat of KRAFT EPOXY AQUA FLOOR PRIMER Transparent undiluted and allow to dry.
- » On bituminous substrates apply one coat of KRAFT TOTAL PROOF PU AQUA diluted with 20% and allow to dry 24 hours.
- » Apply the material with roller, brush or airless or air-assisted spray gun crosswise in two coats. Apply the second coat after 6 hours.
- » At problematic areas apply the material in thicker film or another coat. It is recommended to apply on these areas KRAFT HYDROGUARD NET reinforcement mesh.

APPLICATION INSTRUCTIONS

- » **Tools:** Roller, brush or airless or air-assisted spray gun.
- » **Cleaning:** The tools and spillages may be cleaned immediately with soapy water.
- » **Thinning:** No thinning is required.
- » **Dry to Recoat:** 6 hours under favorable drying conditions.
- » Stir well KRAFT TOTAL PROOF PU AQUA before use and during application.
- » Do not apply at temperatures below 5°C or above 35°C or at humidity levels above 65%.
- » All coats on warm weather conditions are recommended to be applied during the early morning hours, when the surface temperature of the roof is less than 30°C and not under direct sunlight.
- » The material is fully cured after 7 days in favorable weather conditions.
- » Do not apply if rain is imminent for the next 2 days.

- » No foot traffic should be permitted on the coated surface for 48 hours after the application in favorable weather conditions.

PACKAGING

- » White - Available in 4Kg and 25Kg Plastic Containers.

HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

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

Poison Centre Telephone:

+30 210 7793777

STORAGE

- » Store containers at 5°C to 35°C.
- » Keep containers tightly closed when not in use.

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.gr, 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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