

Total Proof® Polyurea AR



THINNING
0-5% with
NITPO 2000



CONSUMPTION
1,0-1,5 Kg/m²



TOOLS
Brush, roller,
or airless gun



DRYING
3 hour



MIX
68,5 A : 31,5B

High performance 2K cold-applied elastomeric waterproofing polyurea membrane

- » **Versatile innovative formula**
- » **Maintains its elasticity in a wide temperature range**
- » **Resistance to weather conditions and sun radiation**

- » **Fast curing**
- » **Resistance to mechanical strains**
- » **Waterproof and resistant to stagnant water**
- » **Suitable also for non-exposed surfaces**

Total Proof® Polyurea AR is a 2-component cold-applied elastomeric waterproofing polyurea membrane, for long-term protection of building surfaces. Its composition is based on polyaspartic resins, while it is reinforced with glass fibers to create a uniform film with excellent

mechanical resistance, and UV filters for additional protection from solar radiation, creating a waterproof & joint-free, elastic membrane. It is evaluated as a cold material by the NTUA and has a CE marking according to the **EN1504-02** standard for surface protection.

A/j (SB) Two-pack reactive performance coatings.

- VOC Limit: 500g/L
- Maximum VOC concentration of the ready to use product: 499 g/L

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DIRECTIONS FOR USE

Total Proof® Polyurea AR is used as a roof waterproofing membrane. It has excellent adhesion to horizontal surfaces made of concrete, cement mortar, etc. while it seals cracks since it has excellent elasticity and resistance to intense temperature changes. It is suitable to be used:

- As an exposed layer on concrete or cement slab roofs
- In mosaic or cement mortar
- On rooftops and underground exterior walls
- On metallic surfaces
- On bitumen membranes
- On PVC-type synthetic membranes
- Directly on new or old polyurethane membranes
- On non-exposed surfaces (e.g. under tiles or stones)
- For polyurethane foam protection

| TECHNICAL DATA | |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Binder Type | A comp: Aspartic acid ester B comp: Blend of aromatic/ aliphatic diisocyanates |
| Mixing Ratio (A+B) w/w | 68,5 A : 31,5B |
| Drying time @ 25oC | 3h |
| Curing Time | 7 days |
| POT life @ 25oC | ~1h |
| Consumption per layer | 0,500 – 0,750 kg/m ² |
| Density ISO 2811 @ 25 °C | 1,47 g/mL (±0,05) (A+B) |
| Solids Content w/w ISO 3251-03 | 80,5% (±2) (A+B) |
| Viscosity ASTM D 562-05 @ 25°C | 55KU (±15) (A+B) |
| Application Viscosity ASTM D 562-05 @ 25°C | 55KU (±15) |
| Elongation at break EN ISO 527 | >300% |
| Tensile Strength EN ISO 527 | >8,5MPa |
| Hardness SHORE A ASTM D2240 | 75 (±5) |
| Hardness SHORE D ASTM D2240 | 35 (±5) |
| Accelerated weathering UVA+condensation/2000h EN 1062-11 | Blistering: 0(S0) Cracking: 0(S0) Flacking: 0(S0) |
| Temperature variations resistance | -35oC – 90oC |
| Total solar reflectance TSR ASTM G173-03 | 0,87 |
| Thermal emittance coefficient | 0,87 |
| Reflectance in the near infrared radiation RNIR, ASTM G173-03 | 0,91 |
| Solar reflectance index SRI ASTM E1980-01 | 109 |

According to EN1504-2

| | |
|---------------------------------------------------------|----------------------------------------------|
| Adhesion EN1542 | ≥ 1,5 N/mm ² |
| Capillary absorption and permeability to water EN1062-3 | w < 0,1 kg/m ² · h ^{0,5} |
| Permeability to CO2 EN1062-6 | Sd>50 m |
| Permeability to water vapor EN ISO7783 | Sd<0,8 m |
| Reaction to Fire EN13501-1 | E |

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DIRECTIONS FOR USE

1. **SUBSTRATE - PREPARATION:** Ensure even, clean, solid, free from stagnant water, humidity (<4%), 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. Both on absorbent (e.g. concrete, cement, old tiles, etc.) & non-absorbent substrates (e.g. glossy tiles, mosaics, asphalt, etc.) prime with the **Transparent Epoxy Aqua Floor Primer**. On metallic surfaces apply first **Epoxy Aqua Anti-Rust Primer**.

2. **MIXING:** Components A and B are available in containers with a standard mixing ratio. Component B is added completely into the component A container. Mixing of two components for about 2 minutes

ensures the homogeneity of the mixture. Avoid overmixing to prevent entrapping air.

3. **APPLICATION:** After proper preparation and priming of the substrate, **Total Proof® Polyurea AR** 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® Polyurea AR**, 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.

PACKAGING-SHADE-SPREADING RATE

Available in White in the following packaging and spreading rate.

| SET A + B | SUM kg | max m ² |
|----------------------------------|---------|--------------------|
| A COMP. 3,25kg + B COMP. 1,50kg | 4,75 | 5 |
| A COMP. 9,75kg + B COMP. 4,50kg | 14,25kg | 15 |
| A COMP. 16,25kg + B COMP. 7,50kg | 23,75kg | 25 |

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HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

FOR PROFESSIONAL USE ONLY.

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 7793777

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

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|  1020 | Druckfarben Hellas S.A. Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, Greece |
| 24 DoP No 04.13 Total Proof® Polyurea AR (2K) EN 1504-2:2024 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 _p >50m |
| Permeability to water vapour | Class I |
| Capillary absorption and liquid water permeability | w < 0,1 kg / m ² h ^{0,5} |
| Artificial weathering test (blistering / cracking / laking) | 0(SO) / 0(SO) / 0(SO) |
| Dangerous substances | See SDS |

COMPANY CERTIFIED BY

- ✓ ISO 9001
- ✓ ISO 140001
- ✓ ISO 50001
- ✓ ISO 45001

09/2024 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.

DRUCKFARBEN HELLAS S.A.

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