



NEXT GENERATION TORTOISE SOLUTIONS

TORTOISE® TORPUR HJ 1004

Polyurethane Based, One Component, Liquid, Waterproof Coating

PRODUCT DESCRIPTION

Torpur HJ 1004, is a single component, polyurethane based waterproofing coating that bridges cracks, curing with air humidity. Liquid, and ready to use. Adheres perfectly to different surfaces, creating a durable and elastic film. Has UV resistance, high mechanical and chemical resistance and resistant to tensile, tear and abrasion with its flexible structure.

APPLICATION AREAS

Torpur HJ 1004, is used for the protection and insulation of the following surfaces ;

- Terrace, roof and rain gutters,
- On patio and balconies,
- Ceramics under wet volumes,
- On light roofs made of metal and fibrous materials,
- Bitumen, PVC, EPDM based membranes,
- Used with appropriate primers on concrete, wood and metal surfaces.

PROPERTIES

- Suitable for cold application and can be easily applied with a roller, trowel, brush or airless spray gun.
- Creates a crack bridge.
- Resistance to ponding water
- It maintains physical properties at - 30°C / + 90°C.
- Water vapor permeable and allows the surfaces to breathe.
- Excellent adherence properties.
- Economic solution.
- Shows effective resistance to chemicals.
- Does not contain toxic substances after curing.

PRODUCT INFORMATION

PACKAGING

- 25 Kgs Pail
- 12 Kgs Pail
- 3 Kgs Box

COLOR

- White
- Grey
- Ral colors

SHELF LIFE

- The shelf life is 12 months if the specified storage conditions are followed in its original unopened packaging.

STORAGE CONDITIONS

- Store in a dry and cool environment (between +15°C / + 25°C)
- It should be protected from water, frost, heat, ignition, direct sunlight and adverse weather conditions
- The date of manufacture is on the label.
- Even opened packages are tightly closed, the inside of the product will be curing quickly so that the opened cans should be consumed in short time.

CONSUMPTION

- First layer : 0,600 - 0,800 kg / m²,
- Second layer : 0,600 - 0,900 kg / m²
total 1,5 kg / m² (min.)

Consumption may vary depending on surface roughness, ambient and surface temperature and application method.



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APPLICATION INSTRUCTIONS

SURFACE PREPARATIONS

The surfaces to be applied should be dry and clean. Concrete and plaster residues mechanically: oil, grease, fuel and paraffin wastes should be cleaned using chemical solvents. Damaged coatings, uneven surfaces and cracks should be repaired with appropriate products. After the repair, the surface should be primed with EP or PU based primer depending on the situation and then the application of **TORPUR HJ 1004** should be started.

- Hardness of application concrete (R28 = 15 Mpa)
- Temperature: 5-35 °C
- Relative humidity of air: < 85%

PRIMING

Many absorbent surfaces such as concrete, cement screed or wood should be filled with PU lining before the primer application, without creating a film.

It is of great importance for a correct application that the surface is smooth and saturated with primer. If the surface is not cleaned and primed properly, it can lead to the removal of the applied product from the surface, and the formation of problems such as bubbles, craters, pinholes etc. on the surface.

PRIMER SELECTION

SURFACE PROPERTIES	Torpur Epoxy Primer Barrier	Torpur Epoxy Primer	Torpur Primer EP Filler	Primer AS 014	Torpur SA 015
Humidity ≤ %4	✓	✓		✓	
Humidity %4 - %8	✓				
Non-uniform Concrete Surfaces			✓		
Metal, Aluminum, Marble, Ceramic, Galvanized Coated Surfaces					✓
Wood	✓				✓
PVC				✓	✓
Highly Absorbent Surfaces	✓	✓		✓	
Bitumen Coated Surfaces				✓	

PREPERATION of MATERIAL

- **Torpur HJ 1004** is ready for use with one component. Before applying the product, mix with a suitable mixer at a speed of 300 RPM for 2-3 minutes.
- The packages should kept at room temperature for 24 hours are opened and mixed until homogenous consistency. Mixing should be done with low speed mixer and appropriate mixer tip.

APPLICATION

Torpur HJ 1004 is applied in 2 coats with thin comb trowel, airless spraying machines or brush or roller.

- Do not wait more than 24 hours between layers.
- In case of exceeding 24 hours, the application surface must be treated with sandpaper.
- If it is thought to be applied by spraying method, material should be applied after being diluted with Tortoise Polyurethane Thinner.
- The packages kept at room temperature for 24 hours are opened and mixed until homogenous consistency. Mixing should be done with low speed mixer and appropriate mixer tip.



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- **Torpur HJ 1004**, offers practical application in ready-to-use packaging, which can be applied without thinning.
- **Torpur HJ 1004**, is spread homogeneously by making consumption control on the primed surfaces with the help of thin comb trowel, short-hair roller brush or airless spray gun.
- The layer must be protected against water and rain, external influences and mechanical stress until it is dry.
- In case of application of the second layer, wait between the layers (approximately 8-12 hours). It should be kept in mind that the waiting time in hot weather may be shortened and may be extended in cold weather.
- It is recommended to use **Torpur Topcoat WP, Torpur Topcoat 2K or Torpur Topcoat Transparent** products after Torpur HJ 1004 is applied for color resistance and longer term protection.
- The product should be applied in thin layers to avoid problems such as pinhole and crater. The amount to be applied to the floors is specified in the consumption section.

SAFETY

- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.

Users should refer to the latest Material Safety Data Sheets, including physical, ecological, toxicological, and other safety-related data for information or advice on the safe transport, storage, disposal of chemical products.

CLEANING TOOLS

- Cleaning of the tools should be done with soapy water before curing.
- After curing cleaning should be done with thinner.

LIMITATIONS

- In closed areas due to long-term solvent odor and/or vendors the environment should be well ventilated.
- The surface temperature should be +5°C. The mixture of the material should be made with a special mixing device and tip which does not exceed 300- 400 RPM and it should not be mixed with high speed drill.
- In cold weather, packagings must be stored at a minimum temperature of +15 °C for at least 24 hours prior to application.
- Water vapor pressure should not be observed on the negative side. In such a case, special insulation must be applied before application.
- After the application, the surface must be protected against water, rain, dew, snow, hail etc. until it is dry.
- Full mechanical and chemical strength will occur in 7 days should be considered.
- Contains solvent, flammable.
- Do not contact with open flames and do not smoke during application.
- Do not swallow, Do not use empty packages for storing foodstuffs and do not throw them into fire.
- For professional use only, keep out of the reach of children.
- The product is not UV stable and must be protected with topcoat by a separted wearing coating.
- Not suitable for waterproofing of swimming pool surfaces in contact with chemically treated water.



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DECLARATION

The information contained herein and in particular the application and end-use recommendations are provided in good faith, based on our current knowledge and experience, when properly stored, prepared and applied. The document, not being able to cover all possible scenarios or imply product suitability for every case of application.

Products, application surfaces and application areas are quite diverse in practice. Therefore, when using our products, be sure to apply the right product in the right conditions and in the right place, and strictly follow the information and instructions given by our company regarding commercial convenience and/or suitability for a particular purpose. Otherwise, our Alpa is not responsible for damages that may occur.

The user of the product (user) must test the suitability of the product for the application and purpose for which it intends to use the product. We reserve the right to change the specifications of our products. Property rights of third parties should be observed. Upon acceptance of all orders, our current terms of sale and shipping shall prevail.

Users should always consider the latest edition of the Product Data Sheet (TDS), which we can obtain from our company or our website, by contacting our company for the relevant product.



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TECHNICAL DATA

PROPERTIES (23°C & % 55 RH)	UNIT	METHOD	SPECIFICATIONS
Viscosity (BROOKFIELD)	cP	ASTM D2196-86	1500-4500
Density	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811	1.45 ± 0,05
Solids Content	%	ASTM D2369	85-90
Flash Point	°C	ASTM D93	>40
Walkable on Time	hour	-	8-12
Recoat Time	hour	-	8-12
Hardness (7 days)	Shore A	ASTM D2240 / DIN 53505 / ISO R868	60-65
Tensile Strength (7 days)	N/mm ²	ASTM D412	>3
Elongation at Break	%	ASTM D412	> 600
Adhesion to concrete	MPa	ASTM D4541	1,5-2
Volatile Organic Compound (VOC)	g/L	ASTM D3960	100-150
Shelf life	month	-	12
Water Vapor Transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8