



ADVANCED POLYMER TECHNOLOGIES

# TORTOISE® TORPUR EP 2K PRIMER HB

*Epoxy Based, Two Component, Low Viscosity, Moisture Barrier Primer and Impregnating Material*

## PRODUCT DESCRIPTION :

**Torpur EP 2K Primer HB**, is a two component, low viscosity, high mechanical and chemical resistance, which can be penetrated into the depths of the surface, and a surface impregnation and primer material which fills the gaps and the pin holes of the surface to be applied.

- It is used as water and moisture barrier on concrete surfaces.
- It is applied as adherence bridge for new concrete applications on old concretes.

## SURFACE PREPARATION:

- Application surfaces should be dry and clean. Concrete and plaster residues are mechanically; Oil, grease, fuel and paraffin wastes should be cleaned using chemical solvents. Damaged and cracks must be repaired with available product. The surface must have a compressive strength of at least 25 N / mm<sup>2</sup> and a pull-off test result of at least 1.5 N / mm<sup>2</sup>. The new concrete must be at least 28 days old and the concrete surfaces must have a maximum moisture content of 8%. Cement residues and shiny cement grout on the concrete surface should be cleaned by sandblasting, milling, wiping machine, driven grinding and the surface should be roughened. The entire surface must be cleaned of dust.
- The relative humidity of the air should be at most 85%, the application temperature (environment and surface) should be between + 5 ° C and + 35 ° C.
- It should not be exposed to rain, humidity and water 24 hours before application, during application and 24 hours after application.
- The Applied Material must be protected against external factors and mechanical strain until it is fully cured.

## PROPERTIES :

- Solvent free.
- Low Viscosity.
- Does not contain toxic substances after curing.
- It has excellent adherence properties.
- It can be applied to moist surfaces (up to %8)
- Resistant to heavy loads.

## APPLICATION AREAS :

### Torpur EP 2K Primer HB;

- It provides high chemical and mechanical strength for concrete and mineral based surfaces as a primer and creates a homogeneous base for the topcoat material to be applied.
- As binder, it prepares the floor for surface correction, repair and epoxy mortar.
- It is used as primer coat before applying epoxy, polyurethane, polyurea and bitumen / polyurethane based topcoats on the surfaces exposed to medium to heavy loads.
- It is used as epoxy mortar for large cracks and chamfering or repairing by mixing with silica sand, quartz or different fillings.



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- The floor temperature should be 3°C above the condensation temperature of the moisture in the air at that time.
- Consumption may vary depending on surface roughness, ambient and surface temperature and application method

## PREPARATION OF MATERIAL :

The mixing time of the two components should be taken into account and prepared at the specified mixing rate until the amount to be consumed. In order to obtain a homogeneous mixture, the product temperature should not be less than 15 ° C. The A component should be stirred quickly with a mechanical mixer, adding the hardener (component B) to the mixing ratio. Components A and B should be mixed with a mechanical mixer for at least 3 minutes until homogenous

## APPLICATION :

- **Torpur EP 2K Primer HB** is applied by roller, trowel, brush and airless spray..
- The mixture, which is ready for application, is applied to the surface to be saturated and pores to be closed. New coat application time is at least 4 hours (23°C), up to 24 hours. The primer surface should be sanded before the application of new coats exceeding 24 hours. It is very important that the second coat is applied within the new coat application period mentioned above. It reaches a complete mechanical and chemical resistance in 7 days.

## CONSUMPTION :

200-350 gr/m<sup>2</sup> If the product is to be used as a primer,  
450-600 gr/m<sup>2</sup> If the product is to be used as water / moisture barrier or adherence bridge,

## PACKING :

A + B = 10 + 4 kg  
A + B = 20 + 8 kg

## STORAGE AND SHELF LIFE :

- It should be protected from water, frost and adverse weather conditions
- Store in a dry and cool environment (between +15°C / + 25°C)
- 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 will be consumed.
- The shelf life is 12 months if the specified storage conditions are followed.

## SAFETY :

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.

## WARNINGS :

- 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.



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- 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.

company regarding commercial convenience and/or suitability for a particular purpose.

Otherwise, our company 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.

## CLEANING TOOLS :

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

## PRECAUTIONS :

- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.
- Do not swallow, do not use empty packages for food storage and do not dispose of in a fire.
- For professional use only, keep out of reach of children.

## 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. Products, application surfaces and application areas are quite diverse in practice. Therefore, when using our products, be sure to apply the correct product in the right conditions and in the right place, and strictly follow the information and instructions given by our



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## TECHNICAL SPECIFICATIONS :

PROPERTIES(23 °C, 55 % RH )	UNIT	METHOD	SPECIFICATIONS
<b>View</b> A Component: EP 2K Primer HB B Component: Hardener	-	-	Beige, Ral colors
<b>Mixing ratio</b> A Component: EP 2K Primer HB B Component: Hardener			2,5:1
<b>Viscosity (BROOKFIELD)</b> A Component:EP 2K Primer HB B Component: Hardener	cP	ASTM D2196-86 / TS 5833 / EN ISO 3219	1000-3500 500-1500
<b>Density</b> <b>A Comp.</b> <b>B Comp.</b>	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811	1,25 ± 0,05 1,00 ± 0,05
<b>Application time</b>	Minutes	-	30-35
<b>Touch Time</b>	Hours	-	4-6
<b>Solid content</b>	%	ASTM D2369	~100
<b>Shore A hardness</b>	Shore A	ASTM D2240 / DIN 53505 / ISO R868	80-90
<b>Shelf life</b>	month	-	12
<b>Waiting Time Between Layers</b>	Hours		4-12