ADVANCED POLYMER TECHNOLOGIES

TORTOISE® TORPUR WATERSTOP

Polyurethane Based, Two Component, Liquid, Waterproof Coating

PRODUCT DESCRIPTION :

Torpur Waterstop, is a two-component coating material that provides waterproofing. Solvent free, hard elastic, UV resistant, cold applied and cold curing polyurethane liquid membrane. It is waterproofing coating material which can be seen on light pedestrian. It can be applied under concrete, cement floor, tiles or tiles.

PROPERTIES :

- It is a cold application and can be easily applied with a roller, trowel, brush or airless spray gun.
- Suitable for pedestrian traffic with its hard elastic structure.
- Resistance to ponding water and frost
- Maintains physical properties at -30ºC / + 90ºC
- Water vapor permeable and allows the surfaces to breathe.
- It has excellent adherence properties.
- High UV resistance and color stability
- Solvent free.
- Self levelling,
- Shows effective resistance against chemicals (solvents, oils, sea water, thinned acids and sulfates).
- It does not contain toxic substances after it has been cured.

APPLICATION AREAS :

Torpur Waterstop used for the protection and waterproofing of the following surfaces;

- On terrace roofs,
- On patio and balconies,
- Submerged wet areas,
- Building foundations, shear walls, retaining walls,
- In contact with fuels,
- Wastewater treatment pools
- Chemical pools
- Underground water structures
- On light roofs made of metal and fibrous materials
- Used with appropriate primers on concrete, wood and metal surfaces.

SURFACE PREPARATION:

The surface should be purified from humidity. The application field should be cleaned out all other coatings and purified from oil, dust, dirt and slack materials. After the surface priming with Tortoise AS 014 primer, Torpur Waterstop application 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.

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.

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APPLICATION :

Torpur Waterstop, applied by roller, trowel, brush or airless spray.

The mixture, which is ready for application, is applied so that the surface is saturated and the pores are closed. The new coat application time is minimum 4 hours (23 ° C) and maximum 24 hours. The surface must be sanded before new coat applications exceeding 24 hours. It is very important to apply the second coat within the new coat application period mentioned above. It reaches a full mechanical and chemical resistance (at 23 ºC, 55% RH) in 7 days.

- It is applied on the floor by brush or roller. Air bubbles should be taken with a hedgehog roller within 10 minutes.
- 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.
- **Torpur Waterstop,** offers practical application in ready-to-use packaging, which can be applied without thinning.
- 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 4-24 hours. It should be kept in mind that the waiting time in hot weather may be shortened and may be extended in cold weather.

CONSUMPTION :

First layer: 1,4 kg / m^2, for 1mm thickness)

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

PACKING :

A + B = 10 +2 kg

STORAGE AND SHELF LIFE :

- It should be protected from water, frost and adverse weather conditions
- Store in a dry and cool environment (between +15ºC / + 25ºC)
- 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 ºC. 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 ºC for at least 24 hours prior to application.

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- 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.

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 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.

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TECHNICAL SPECIFICATIONS :

PROPERTIES(23 ºC, 55 % RH)	**UNIT**	**METHOD**	**SPECIFICATIONS**
View A Component: Waterstop B Component: Hardener	-	-	White, Grey, Green, Blue, Ral Colours
Mixing ratio A Component: Waterstop B Component: Hardener			5:1
Viscosity (BROOKFIELD) A Component: Waterstop @20 rpm B Component: Hardener	cP	ASTM D2196-86 / TS 5833 / EN ISO 3219	10000-15000 200-400
Density **A Comp.** **B Comp.**	gr/cm^3	ASTM D1475 / DIN 53217 / ISO 2811	1,55 ± 0,05 1.25 ± 0,05
Application time	Minutes	-	35-40
Walking time on	Hours	-	8-12
Solid content	%	ASTM D2369	~100
Serve temperature	ºC	-	+5°C/+30°C
Shore A hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	75-85
Tensile strength	N/mm^2	ASTM D412	> 5
Elongation at break	%	ASTM D412	~ 100
Flash point	^{0}C	ASTM D93	> 95
Shelf life	month	-	12