

CTBOND *Post*

Post-applied, special coated, flexible waterproofing membrane

Product description

CTBOND **Post** is a 2-layer, highly flexible tanking sheet/membrane. The membrane is post and cold applied, no need of heat and open flames during application, but it can be welded if wanted. It consists of a synthetic membrane which is coated with a very special alkaline resistant pressure sensitive adhesive. The adhesive is protected with a silicon foil and must be removed before application. This special design offers a very high safeness against water penetration. Because of the flexible adhesion to concrete it is a permanently active waterproofing membrane. Very high bonding to concrete. The membrane has a self-adhesive strip on one side for side lap overlapping and ensures a perfect bonding between the membranes. The application must be done after the concrete is cured..

Area of application

CTBOND **Post** is used for the waterproofing of exterior basement walls, foundations, tunnels, floor plates, etc. The same product is suitable for vertical and horizontal areas. CTBOND **Post** is usable against pressurized water and infiltration of gases

Features

- Flexible adhesion to concrete
- Permanently working
- Highly flexible
- Self-adhesive coating
- Pressure sensitive adhesive
- Continuous thickness
- Watertight against pressurized water
- Chemical resistant
- Methane gas barrier
- Radon gas barrier
- UV-resistant for >60 days
- Highly crack-bridging
- High elongation
- Not harmful for groundwater
- German engineered and manufactured

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Specification

Base:	flexible synthetic membrane
Self adhesive coating (1.):	pressure sensitive polymer resin
Active coating (2.):	silicium dioxide, mineral based
Color:	white
Processing temperature:	> + 5°C to +40°C
Weight:	approx. 1500 g/sqm
Thickness:	approx. 1.25 mm
Length according to DIN EN 1848-2:	20 m
Width according to DIN EN 1848-2:	1050 mm

Basic characteristics	Performance	Harmonized technical specification
Visible defects	Pass	EN 1850-2
Dimensions and deviations	Length: 20 m ± 0.10 m Width: 1050 mm ± 5 mm Straightness: Passed	EN 1848-2
Thickness and area density	Membrane thickness with coating: 1.28 mm (±10%) Area density: 1550 g/m ² ± 10%	EN 1849-2
Water tightness Water pressure 60 kPa (0.6 bar)	Passed	EN 1928-A
Water tightness Water pressure 400 kPa (4 bar)	Passed	EN 1928-B
Resistance to impact Substrate Al plate	400 mm	EN 12691-A
Resistance to impact Substrate EPS plate	800 mm	EN 12691-B
Durability – against heat ageing	Passed	EN 1296 and EN 1928-A
Durability – against chemicals	Passed	EN 1847 and EN 1928-A

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Basic characteristics	Performance	Harmonized technical specification
Compatibility with bitumen	Passed	EN 1548 and EN 1928-A
Tear resistance – longitudinal direction (nail shank)	>500N	EN12310-1
Tear resistance – transverse direction (nail shank)	>650N	EN12310-1
Resistance to static loading Substrate: EPS plate	≤ 15 kg	EN 12730-A
Resistance to static loading Substrate: Concrete	≤ 20 kg	EN 12730-B
Resistance to static loading Substrate: EPS plate	≤ 15 kg	EN 12730-C
Tensile force in longitudinal direction	≥ 120 N/6 mm	EN 12311-2
Tensile force in transverse direction	≥ 140 N/6 mm	EN 12311-2
Tensile strength in longitudinal direction	≥ 13 N/6 mm	EN 12311-2
Tensile force in transverse direction	≥ 14 N/6 mm	EN 12311-2
Elongation at rupture – transverse direction	≥ 650%	EN 12311-2:2013

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Basic characteristics	Performance	Harmonized technical specification
Elongation at rupture – Longitudinal direction	≥ 500 %	EN 12311-2:2013
Reaction to fire	Class E	EN 13501-1
Gas transmission rate (CH ₄)	Passed	ISO 15105-1:2007-10
Radon transmission	D = 1.89E ⁻¹³ m ² s ⁻¹	ISO/TS 11665-13

Peeling strength of bonding to poured concrete (N/mm²)

Clean surface: ≥ 1.5

All technical data are measured in our laboratory.

Please take notice of the safety information and advice given in the safety data sheets and on packaging labels.

Delivery Units

CTBOND *Post*
 20 m per roll
 Width: 1050 mm

CTBOND *PreTape*
 20 m per roll
 Width: 150 mm

CTBOND *DoubleTape*
 30 m per roll
 Width: 100 mm

CTBOND *RepTape*
 20 m per roll
 Width: 100 mm

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Storage

12 months, ensure in a cool and dry area and in original undamaged packaging

Application

Preparation of the surface:

The surface must be sound, even, stable and clean. The substrate to be coated should not have damage, gaps, joints, or voids greater than 10 mm. To prevent movements or penetrations such as conduits for water and electricity during concrete and membrane installation, they must be fixed and stabilized. Damaged concrete should be repaired with GPCG Mortar or STARFIX® first. Sharp edges must be removed first to prevent damage to the membrane.

Material application:

Horizontal application:

CTBOND **Post** must be bonded to the concrete with the self-adhesive coating after the silicone protective foil is removed. The overlapping between the membranes is 75 mm. Before removing the siliconized PE-foil (of the side lap overlapping area) ensure that the membranes overlapping zone is positioned correctly. Ensure the back side of each subsequent roll is clean prior fixing and overlapping. Then start removing of siliconized PE-foil to bond the membranes together. Use a heavy roller to ensure a complete perfect bonding between the membranes. Then go ahead with removing of plastic film and press membranes together. At the overlapping area of end laps the CTBOND **Post** the CTBOND **PreTape** is used. The roll width of the tape is 150 mm. The tape must be placed directly above the overlapping area with 75 mm to both sides of membrane (150 mm tape). While removing the first layer of silicone foil the CTBOND **Post** with the tape must be pressed together. Proceed with removing of siliconized foil and press the tape together with the membrane.

Vertical application:

CTBOND **Post** must be bonded on the concrete with the self-adhesive coating after the silicone protective foil is removed. The overlapping between the membranes is 75 mm. Before removing the siliconized PE-foil (of the side lap overlapping area) ensure that the membranes overlapping zone is positioned correctly. Ensure the back side of each subsequent roll is clean prior fixing and overlapping. Then start removing of siliconized PE-foil to bond the membranes together. Use a heavy roller to ensure a complete perfect bonding between the membranes. Then go ahead with removing of plastic film and press membranes together. At the overlapping area of end laps the CTBOND **Post** the CTBOND **PreTape** is used. The roll width of the tape is 150 mm. The tape must be placed directly above the overlapping area with 75 mm to both sides of membrane (150 mm tape). While removing the first layer of silicone foil the CTBOND **Post** with the tape must be pressed together. Proceed with removing of siliconized foil and press the tape together with the membrane. All detailing for example around pipes should be completed with CTBOND **hydro-active-coating**, a liquid applied membrane. For better bonding to HDPE a preparation with CTBOND **RepTape** is recommended.

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Repairs before concrete placement:

In case of damage to the CTBOND **Post** during installation it is necessary to repair. CTBOND **PreTape** can be used to repair any cuts or punctures <10 mm. For larger repairs, cut a sleeve out of CTBOND **Post** to fit across to repair zone. Ensure that the sleeve overlaps a minimum of 150 mm of damaged area

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Note: Ensure that all overlapping areas are sealed and the siliconized PE-foil is removed in that area.

Do not damage the membrane during construction works.



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