

BLOCK X911 TERRA TURBO LIGHT 2K

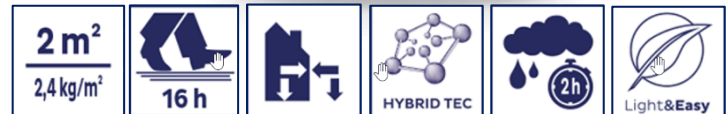
Universal bitumen-free hybrid waterproofing

WATERPROOFING SOLUTIONS

BASEMENT



- Very smooth processing.
- Already rainproof after 2 hours.
- Can be walked on after only 16 hours.
- Can be painted and plastered over
- Brushable, slurry, spatuable, sprayable.
- Waterproofing of concrete parts, containers and cellars.



DESCRIPTION

- BLOCK X911 TERRA TURBO LIGHT 2K** is a two-component, flexible, reactive setting sealing slurry for universal use indoors and outdoors, on walls and floors and for sealing structures in contact with the ground.
- After setting, waterproof, flexible and crack-bridging. **BLOCK X911 TERRA TURBO LIGHT 2K** can be used as a carbonation brake on concrete surfaces or for fixing perimeter insulation. **BLOCK X911 TERRA TURBO LIGHT 2K** is bitumen and solvent-free, cures crack-free. Simple and easy to apply by spraying, brushing or troweling. **BLOCK X911 TERRA TURBO LIGHT 2K** meets the requirements for fire behavior of class E of DIN EN 13501
- Can be used for structural waterproofing in accordance with DIN 18533 and for pool waterproofing in accordance with DIN 18535-3.

TECHNICAL DATA

Color	Dark grey after drying
Material	Reactive special powder with polymer-rich liquid component
Drying Time 1st and 2nd coat	2 – 3 hours
Application Temperature	not below + 5 °C air, not below 10 °C substrate, up to max. + 30 °C air temperature
Cleaning	With water immediately after use. In a thoroughly dried state, only remove mechanically or with LIME REMOVER.
Consumption	Ca. 1,2 kg/m ² / mm layer thickness
Shelf life	9 months

AREAS OF APPLICATION

BUILDING WATERPROOFING

- **BLOCK X911 TERRA TURBO LIGHT** has been tested in accordance with the "Test principles for building waterproofing FPD (flexible polymer-modified thick coating)", in accordance with VVTB No. C 3.26, for the granting of a building authority approval (abP MDS), in conjunction with the system components barrier mortar as cove finishing and for wall or floor connections or Ardatape 120 Extra and accessories as the respective sealing tape system.
- **BLOCK X911 TERRA TURBO LIGHT** is suitable for sealing structures and building components, according to crack class RÜ3-E (≤ 1 mm), for room use classes RN 1-E and RN 2-E, RN3-E according to DIN 18533 or R3-B according to DIN 18535.
- **BLOCK X911 TERRA TURBO LIGHT** can be used for water impact class W1.1-E (soil moisture), W1.2-E (non-accumulating seepage water), W2.1-E (accumulating seepage water as well as water under pressure), W3-E (water not under pressure on ceilings covered with soil), W4-E (splash water and soil moisture at the wall base as well as ca- pillar water in and under Walls

APPLICATIONS

- Sealing slurry hybrid-mineral as structural waterproofing in areas in contact with the ground, against ground moisture, against non-accumulating seepage water, against accumulating seepage water as well as water under pressure, spray water and ground moisture at the wall base as well as capillary water in and under walls.
- For water action class in the basin W2-B(S2) up to 6 m filling height according to DIN 18535-1.
- For water impact class in areas in contact with the ground from W1-E to W4-E according to DIN 18533.

PREPARATION OF THE SUBSTRATE

A. SURFACE PREPARATION :

- All surfaces to be waterproofed must be sound, smooth and dry.
- All excessive spots must be removed.
- Pour in liquid part into a clean bucket.
- Pour powder slowly into the resin.

B. SUBSTRATE PREPARATION

- The mineral substrate must be absorbent, solid, load-bearing, even and fully jointing. Coarse pores, gravel pockets, friable joints, gaping cracks and the like must be filled with **BLOCK C583 TERRA LOCK** or **RENO C556 FILL XXL**
- Burrs and edges are to be broken and fillets are to be formed flush with **BLOCK C583 TERRA LOCK**. Before applying the first coat of **BLOCK X911 TERRA TURBO LIGHT 2K**, dry, absorbent substrates must be lightly prewetted with water or primed with **GRIP A381 CLASSIC** or Bonding Emulsion concentrate diluted 1/3 with water.
- The mineral substrate must be absorbent, solid, load-bearing, even and fully jointing. Coarse pores, gravel pockets, friable joints, gaping cracks and the like must be filled with **BLOCK C583 TERRA LOCK** or **RENO C556 FILL XXL**.
- Allow the primer to soak into the substrate for a short time, but do not allow it to dry completely before applying the first coat of **BLOCK X911 TERRA TURBO LIGHT 2K**.
- SEALING OF CONTAINERS AND PANS; DIN 18535-1 as W2-B up to 6 m filling height; FPD can be used for sealing containers in the exterior as well as interior area according to S1-B and S2-B.
- **BLOCK X911 TERRA TURBO LIGHT 2K** can be used in underwater areas against water pressing from the inside on wall and floor surfaces on solid mineral substrates, such as concrete, cement render or cement screed.

BASIC USES

- **BLOCK X911 TERRA TURBO LIGHT 2K** is a reactive, flexible, 2-component sealing layer for universal use indoors and outdoors, on walls and floors.
- Used as complex sealing (AIV-F) under tiles and for sealing constructions in direct contact with the earth.
- **BLOCK X911 TERRA TURBO LIGHT 2K** can be applied as a carbonation retarder on concrete surfaces or perimeter insulation fixer.

SUBSTRATE PROPERTIES

- Masonry according to DIN 1053, made of e.g., bricks, hollow blocks and solid bricks/blocks made of lightweight concrete and concrete, slag bricks, sand-lime bricks, aerated concrete blocks, concrete shuttering blocks.
- Mixed masonry, concrete/reinforced concrete according to EN 206-1, plaster (DIN V 18550) mortar group P III, CS III, CS IV according to DIN EN 998-1, existing bitumen-based paints and coatings on mineral substrates, as well as on existing old, mineral sealing slurries and cement screeds and old fixed tile coverings.
- Subfloor ready for covering concrete, usually after 3 months. Cement screed: after reaching residual moisture, heated 1.8 CM%, unheated 2.0 CM%.

MIXING

BLOCK X911 TERRA TURBO LIGHT:

- must always be applied in at least two coats to achieve the required wet or dry film thickness.
- is supplied in a mixing container (hobbok) (powder component in a 14 kg bag, liquid component in a 10 kg bucket). First add the liquid component and then the powder component.
- Mix both components by machine with a suitable device (e.g., Collomix DLX stirrer as shown in the fig below) until homogeneous and lump-free.

To ensure an even application of **BLOCK X911 TERRA TURBO LIGHT**, the use of a toothed trowel is recommended.

Each application is applied with the toothed side and then smoothed with the non-toothed side; check the intended application quantity and layer thickness. In general, it must be ensured that the previously applied layer is load-bearing (scratch-resistant) before each new application. This is the case after 2 to 3 hours. **BLOCK X911 TERRA TURBO LIGHT** can be applied with a trowel, toothed trowel or by machine

FOLLOW-UP WORKS

After approx. 16 hours the waterproofing is fully loadable and can be protected against damage. Use protective layers and protective measures in accordance with DIN 18533.

GENERAL BUILDING INSPECTION TEST

MPA BS (PG-FPD) Structural waterproofing according to VVTB no. C 3.26; P-1202/927/20 MPA-BS.





WORKING PROTECTION

Please observe the hazard statements and safety advice on the containers and in the safety data sheets.

RECOMMENDATIONS

- In the case of masonry made of lightweight and concrete blocks, smooth concrete substrates or similar, a scratch coat must first be applied before the actual waterproofing layers. The waterproofing layer must have a sufficient minimum thickness at every point. Allow at least 2 hours drying time between layers (this may vary slightly depending on the weather).
- The guideline for the planning and execution of waterproofing with FPD, e.g., for levelling work, must be observed. The maximum layer thickness per work step must not exceed 5 mm. Depending on the type of application, it may also be necessary to apply a further. Apply the third layer. Minimum dry film thickness: see table.

RECOMMENDED TROWELS FOR MAXIMUM PERFORMANCE

Coverage 30-35 ft ²	Coverage 30-35 ft ²	Coverage 50-60 ft ²	Coverage 30-35 ft ²
			
3/16" X 5/32" V-Notch	1/4" X 1/4" Square-Notch	1/4" X 3/8" Square-Notch	1/2" X 1/2" Square-Notch

Trowel size is suggested to maximize mortar transfer/coverage. Periodically check coverage during installation. Uneven substrate may require the use of either a leveling/patching material, or larger notched trowel for proper mortar coverage.

SEALING AT CONNECTION JOINTS

Joints in concrete and screed as well as joints between wall and floor surfaces are sealed with Ardatape 120 Extra or Ardatape In- side/Outside. The sealing tape is fully bonded with Turbotec 2K Special before the first coat is applied. Construction joints or expansion joints, e.g., in the pool body or screed, are to be bridged with Ardatape 120 Extra by incorporating a loop.

CONNECTION TO FLOOR DRAINS AND GUTTERS

Only floor drains with a suitable press seal flange should be installed. Like the surface, the flange is coated with **BLOCK X911 TERRA TURBO LIGHT 2K** and integrated into the surface seal by inserting Ardatape Floor or Ardatape Strong (fabric).

SEALING OF PENETRATIONS

Installation penetrations are integrated into the surface seal using Ardatape Wall or Ardatape Floor or Ardatape Strong (fabric). Beforehand, it is recommended to fill the joints between the penetration and the ceramic with an elastic sealant, e.g., S730

Load case	Class	Dry film thickness >	Wet film thickness	Order quantity approx.
Soil moisture	W1.1-E	2 mm (according to abP MDS)	2.2 mm	2.4 kg/m ² *
Soil moisture, non accumulating seepage water	W1.2-E	2 mm (according to abP MDS)	2.2 mm	2.4 kg/m ² *
Accumulating seepage water, pressing water	W2.1-E	3 mm (according to abP FPD)	3.3 mm	3.6 kg/m ² *
Earth-filled ceiling area	W3-E	3 mm (according to abP FPD)	3.3 mm	3.6 kg/m ²
Splash water protection in the plinth area	W4-E	2 mm (according to abP MDS and FPD)	2.2 mm	2.4 kg/m ²
Sealing in and under walls	W4-E	2 mm (according to abP MDS and FPD)	2.2 mm	2.4 kg/m ²
Internal sealing of containers max. 6 m filling height	W2-B	2 mm (according to abP MDS)	2.2 mm	2.4 kg/m ²

TECHNICAL SPECIFICATIONS AND DATA

Assignment according to DIN 18535-3	Sealing of tanks/basins. Waterproofing system with an AbP according to PG-FPD, W1-B, W2-B up to 6 m WS, R3-B (bridging of new cracks or crack width change up to 1 mm) S2-B and S1-B.
Assignment according to DIN 18533-3 I	Sealing of building components in contact with the ground Sealing system with an AbP according to PG-FPD Crack-bridging FDP, W1.1- E (ground moisture), W1.2-E (non-accumulating seepage water), W2.1-E (accumulating seepage water as well as pressurised water), W3-E (non- pressurised water on earth-covered ceilings), W4-E (spray water and soil moisture at the wall base as well as capillary water in and under walls), R3-E (bridging of new cracks or change in crack width up to 1 mm), space utilization RN 1-E,RN 2-E and RN3-E.
Material	Reactive special powder with highly polymer-modified liquid component
Density	approx. 1.3 g/cm ³
Mixing ratio	Liquid 1 : 1.4 Powder
Basin test according to DIBT	Positively tested up to 15 m water column.Approved up to 6 m WS
Maturity	approx. 1 minute
Processing time	approx. 45 minutes
Accessible	after approx. 16 hours
Consumption	approx. 1.2 kg/m ² / mm layer thickness
Dry layer thickness	2 - 3 mm (2.2 - 3.3 mm wet) in two working steps
Rain resistance	after approx. 2 hours
Can withstand pressurised water	after approx. 16 hours
Fillable/ basin filling/ pressurised water load	after approx. 16 hours
Temperature resistance	- 20 °C to + 80 °C
Fire behaviour	E, normal flammability according to DIN EN13501-1
Tightness	1.5 bar
Crack bridging	> 1 mm
GISCODE	Powder component ZP1 Liquid component D1
Radon-tight	yes, from 5 mm
Water vapour diffusion resistance number	2.136 μ
Diffusion equivalent air layer thickness (Sd)	8,3 m

PACKAGING

CODE	UC	PCB	GENCO D
30623216	4008373136773	5kg	52 PC
30621795	4008373135844	24kg	18 PC

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This data sheet supersedes all previous issues **Issued: 02.23**
Bostik GmbH

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SAFETY

For more details, consult the safety data sheet on :

<https://bostiksd.thevercs.com/default.aspx>

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