

BILIZO[®] BITUPOL 645

Two-component, Bitumen-Rubber Based Waterproofing Material

Product Description

BILIZO[®] BITUPOL 645 is two component, waterproofing material based on polymer bitumen-rubber based, cracked, applied from the positive side.

Uses

- Indoors and outdoors,
- Foundations and bundling the walls,
- Bonding of thermal insulation boards,
- Foundations, underground parking structures, retaining walls, settling tanks,
- Horizontal and vertical applications where the water comes - the positive direction.

Consumption

Minimum consumption is 3 kg/m² in 2-3 layer.
During the application, consumption may increase according to surface roughness.

Advantages

- Radon gas is impermeable.
- Freeze-thaw cycle resistant.
- Suitable for use in areas that are affected by motion and vibration.
- It creates jointless, seamless, waterproof coating against permanent moisture.
- It is suitable for waterproofing with thick-layer coating against humidity penetration and water which is caused by leaking water in all type constructions in underground and aboveground.
- It does not flow on vertical surfaces.
- In capillary cracks, it makes crack bridging.

Packaging

BILIZO[®] BITUPOL 645; compounds 24 kg liquid component A, and component B is packaged in the form of powder as 8 kg polyethylene bags.

Technical Data

PROPERTY	STANDARD	REQUIREMENTS	CONCLUSION
Crack Bridging	TS EN 15812	+4°C, 2 mm crack \geq 3mm dry film	CB2
Rain Resistance	TS EN 15816	\leq 8 hours, \geq 3mm dry film	R2
Water Resistance	TS EN 15817	1. There must be coloration in the water 2. There should be no separation from the reinforcement, \geq 4mm dry film application (on cured product)	appropriate
Flexibility at Low Temperatures	TS EN 15813	0°C, There should be no cracks	appropriate
Dimensional Stability 70°C	TS EN 15818	70°C, No bleeding or sagging	appropriate
Film Thickness Reduction After Drying	TS EN 15819	\leq 50%	appropriate \leq 50%
Response to Fire	TS EN 13501-1	According to Classification EN 13501-1	E
Waterproofing	TS EN 15820	\geq 72 hour, 0.075 N/mm ² pressure, reinforcement, dry film thickness \geq 4mm	CLASS W2A
Compression Resistance	TS EN 15815	Reinforcement, dry film thickness \geq 4mm, 0,30 MN / mm ² stable under pressure \leq %50	CLASS C2A

Other Technical Information

FLEXIBILITY %	TS EN ISO 527-3	$>$ %100
Intensity (g/ml)	TS 132	A:1 \pm 0,02 A+B:1,12 \pm 0,02
Pot Life (min)	LTY	60
Drying (day)	LTY	3
Curing (hours)	LTY	24
Packaging	LTY	32 kg set
Shelf Life	LTY	12 months in unopened packaging
pH	LTY	$>$ 10
Time for Soil Filling	LTY	3 Day
Application Temperature	LTY	(+5°C)- (+30 °C)
Dangerous substance		Does not contain hazardous materials

Application

Surface should be dry, clean, free of any defects and load-tolerant. Any oil, wax, grease, water repellent, easily detachable and loose parts and dust on the surface which may impair adhesion force should be cleaned off and removed by floor planer. Iron and wooden wedges must be removed from the surface. Any water leakages, non-uniform surface and corner edges must be repaired with suitable prepare mortar, minimum radius of 4 cm. Tie-rod holes should be plugged with BILIZO MORTAR THIX or epoxy repair mortar.

Ready to use material can be applied by trowel. Temperature must be within the range of +5 °C and +30 °C during the application. In case of rainy weather, do not apply the material on wet surface.

Mixture

BILIZO[®] BITUPOL 645 consists of 24 Kg A component and 8 kg B component. 8 kg B comp. is poured into 24 kg A comp. and should be mixed with a electronic mixer with 400-600 rpm for 3-5 mins until being homogeneous mixture at medium speed. The mixture must be consumed in the mixture life.

Curing time is an advantage that 2K products have over 1K products. Especially in winter time, while the curing times of 1K products take longer, the cement based powder components of 2K products shorten the curing time. Therefore BILIZO[®] BITUPOL 645 in the winter has to be cured quickly.

Cleaning the tools: with cellulosic thinner.

Warning: For the following use, thinner residue should not remain on the instruments.

Storage

Store the product in a cool and dry place with the original package. The storing place temperature must be over +5 °C. Short-term storing; max. 3 pallets should be superpose. Long-term storing; pallets should not be superpose. Under suitable conditions, storage life is 12 months from the production date.

Safety Measures

Application areas should be ventilated. Hands and eyes must be protected with gloves and protective glasses. In case of eye or skin contact with the wet material, rinse with plenty of water. In case of swallowing by mistake consult a doctor immediately. Keep out of children. Follow about the product Material Safety Data Sheet (MSDS) according to arranged EU directives.