



TermoBor[®]

"Ecologic Insulation Products"





"Via New Generation Insulation Products"

INSTRUCTIONS' FUTURE AND BUDGET

Under Our Protection



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TURKEY'S RICHEST MINE, RISING VALUE OF CONSTRUCTION; BORON!..

Turkey
Discover
the potential

Boron is a mineral claiming thousands of open/close air holes, light-weighted, easily absorbing high frequency sounds, it is resistant to burning up to 1100 °C, corrosion-free and rustproof, cannot be destroyed by micro organisms. Also it is an ecological mineral that is extremely sensitive to human health and environment.

And for this reason we have produced special **TermoBor** ecological insulation products taking advantage of the superior properties of boron mine.

Termobor is a special product, because;

- Since it is produced from sterile and natural materials it doesn't harm health.
- It is corrosion-free and rustproof.
- Thanks to its winding characteristic, it provides quality living.
- Provides excellent insulation during hot and cold weather conditions.
- It is water repellent.
- It is free of carcinogenic substances.
- It is natural and does not harm the environment.
- It doesn't form thermal bridge.
- It provides superior sound insulation.
- It has excellent adhesion feature on every kind of surface.
- Thanks to its special additives, it provides comfort and time saving in application.
- It does not release greenhouse gas.
- It is light, will not bring any weight.
- It is long-lasting, it ages with the building.
- It can be used during 4 seasons.



Ecologic Exterior Insulation Coating

It is applied on the exterior surfaces of all structures and also on columns and beams, roughcast and finishing coat, brick, pumice, gas concrete etc. provides excellent insulation.



Definition

It provides heat, water, sound and fire insulation with single layer on the applied surface thanks to the porous and natural aggregates in its structure. It prevents sweating thanks to its winding ability. It does not contain any carcinogenic substances. It is natural; it does not harm the environment and human health. Since it does not require mounting with joint, intermediate layer and dowel, thermal bridge does not occur. It can be used during 4 seasons.

Technical Specifications

Heat Conductivity	0,052W/mK
Sound Insulation	22 db (3cm/500hz)
Fire Res.	A1 Fireproof
Pressure Res.	0,64 N/mm ²
Water Vapor Permeability	6,78 μ
Density	313 kg/m ³
Water Absorption Coeff.	W1
Bond Strength	0,12 N/mm ² FP:B
Consumption	3-3,5 kg/m ² /1 cm
Applicable Thickness	1-4 cm
Drying Duration	23 °C 50% 1 Day humid environment
Appearance	White-Grey
Application Heat	+5/+45 °C
Application Method	Applied with steel trowel and spraying machine
Surfaces	Exposed concrete, brick, gas concrete, coating, pumice concrete etc.
Package Type	12 kg kraft sack
Storage Life	12 months in a dry environment

 HEAT INSULATION	 WATER INSULATION	 FIRE INSULATION	 SOUND INSULATION	 WINDING	 NATURAL, HEALTHY GREEN
 INSECT PROOF	 EARTHQUAKEPROOF	 STABLE INSULATION VALUE	 ECONOMIC	 EASY AND SERIAL APPLICATION	 TEXTURE COMPATIBILITY LONGEVITY

Safety Warnings

- No application on hot surface
- Must wear mask and gloves while mixing the material
- In case of contact with eyes rinse immediately
- Must be stored in a humid free and dry environment

SURFACE PREPARATION

The roughness should be removed from the application surface in order to provide better performance from the product. Dirt, oil, dust, swelling paint, lime, debris etc. should be removed and the surface should be made ready for application and then it should be slightly moistened.

CAUTIONS

Since **TermoBor Ecologic Exterior Insulation Coating** is a water based product; attention should be paid to the weather conditions during preparation of the mortar before application. Precautions must be taken against risk of freezing for the surface before and after the application. The amount of water used for the mortar must be mixed at the specified amount; no extra water should be added, **it must be consumed at once after the bag has been opened.**

MIXING METHOD

10-12 liters of clean water is added to the vats and 12 kg of **TermoBor Ecologic Exterior Insulation Coating** is drained and completely added. The mortar vat should be thoroughly cleaned beforehand and the sediments accumulated on the edge of the vat when mixing should be thoroughly stripped with a steel trowel and mixed again. Then it is mixed with a 500-600 rpm mixer for 4-5 minutes until it becomes homogeneous. After mixing, the mortar is rested for 10 minutes and if necessary, 1 more liter of water is added according to the consistency and mixed again and it is ready for application. The usage duration of the mortar is 6 hours.

APPLICATION

TermoBor Ecologic Exterior Insulation Coating can be applied with steel trowel or spraying machine. The battens, which will determine the desired thickness in the application, are fixed on the wall. The prepared **Termobor Ecologic Exterior Insulation Coating** is filled with steel trowel and spraying machine between the battens. The measuring battens are removed and occurring gaps are filled and it's time to wait for the second coat. The waiting duration is 24 hours depending on the temperature and humidity (°23 C - 50% humidity). When the wait is over, second coat can be applied on demand between 10 mm and 20 mm and after the final coating on demand is applied, the surface is made ready for painting.



Ecologic Interior Insulation Coating

It is applied on the interior surfaces of all structures and also on columns and beams, roughcast and finishing coat, brick, pumice, gas concrete etc. provides excellent insulation.



Definition

It provides heat, water, sound and fire insulation with single layer on the applied surface thanks to the porous and natural aggregates in its structure. It prevents sweating thanks to its winding ability. It does not contain any carcinogenic substances. It is natural; it does not harm the environment and human health. Since it does not require mounting with joint, intermediate layer and dowel, thermal bridge does not occur. It can be used during 4 seasons.

Technical Specifications

Heat Conductivity	0,052W/mK
Sound Insulation	22 db (3cm/500hz)
Fire Res.	A1 Fireproof
Pressure Res.	0,64 N/mm ²
Water Vapor Permeability	6,78 μ
Density	313 kg/m ³
Water Absorption Coeff.	W1
Bond Strength	0,12 N/mm ² FP:B
Consumption	3-3,5 kg/m ² /1 cm
Applicable Thickness	1-4 cm
Drying Duration	23 °C 50% 1 Day humid environment
Appearance	White-Grey
Application Heat	+5/+45 °C
Application Method	Applied with steel trowel and spraying machine
Surfaces	Exposed concrete, brick, gas concrete, coating, pumice concrete etc.
Package Type	12 kg kraft sack
Storage Life	12 months in a dry environment

 HEAT INSULATION	 FIRE INSULATION	 SOUND INSULATION	 WINDING	 NATURAL, HEALTHY GREEN	 INSECT PROOF
 EARTHQUAKE PROOF	 STABLE INSULATION VALUE	 ECONOMIC	 EASY AND SERIAL APPLICATION	 TEXTURE COMPATIBILITY LONGEVITY	

Safety Warnings

- No application on hot surface
- Must wear mask and gloves while mixing the material
- In case of contact with eyes rinse immediately
- Must be stored in a humid free and dry environment

SURFACE PREPARATION

The roughness should be removed from the application surface in order to provide better performance from the product. Dirt, oil, dust, swelling paint, lime, debris etc. should be removed and the surface should be made ready for application and then it should be slightly moistened.

CAUTIONS

Since **TermoBor Ecologic Interior Insulation Coating** is a water based product; attention should be paid to the weather conditions during preparation of the mortar before application. Precautions must be taken against risk of freezing for the surface before and after the application. The amount of water used for the mortar must be mixed at the specified amount; no extra water should be added, **it must be consumed at once after the bag has been opened.**

MIXING METHOD

10-12 liters of clean water is added to the vats and 12 kg of **TermoBor Ecologic Interior Insulation Coating** is drained and completely added. The mortar vat should be thoroughly cleaned beforehand and the sediments accumulated on the edge of the vat when mixing should be thoroughly stripped with a steel trowel and mixed again. Then it is mixed with a 500-600 rpm mixer for 4-5 minutes until it becomes homogeneous. After mixing, the mortar is rested for 10 minutes and if necessary, 1 more liter of water is added according to the consistency and mixed again and it is ready for application. The usage duration of the mortar is 6 hours.

APPLICATION

TermoBor Ecologic Interior Insulation Coating can be applied with steel trowel or spraying machine. The battens, which will determine the desired thickness in the application, are fixed on the wall. The prepared **Termobor Ecologic Interior Insulation Coating** is filled with steel trowel and spraying machine between the battens. The measuring battens are removed and occurring gaps are filled and it's time to wait for the second coat. The waiting duration is 24 hours depending on the temperature and humidity ($^{\circ}23\text{ C} - 50\%$ humidity). When the wait is over, second coat can be applied on demand between 10 mm and 20 mm and after the final coating on demand is applied, the surface is made ready for painting.



Ecologic Lightweight Screed

It is used in attics and between stories, and in wet floors it is used under coatings like ceramic, granite, mosaic, laminated flooring.

Since it is light and solid it reduces the excess weight on the constructions.



Definition

It provides heat, water, sound and fire insulation with single layer on the applied surface thanks to the porous and natural aggregates in its structure. It prevents sweating thanks to its winding ability. It does not contain any carcinogenic substances. It is natural; it does not harm the environment and human health. Since it does not require mounting with joint, intermediate layer and dowel, thermal bridge does not occur. It can be used during 4 seasons.

Technical Specifications

Density	≈ 890 kg/m ³
Sound Proof	24 db (3cm/550hz)
Fire Resistance	A1 Fireproof
Water Mixture Ratio	10-12 lt water (For 12 kg dry mortar)
Application Heat	+5 °C/+ 35 °C
Application Duration	≈ 4 Hours
Pressure Resistance	C7
Bending Strength	F2
Abrasion Strength	A6
Consumption	10 kg/m ² /1 cm
Applicable Thickness	2-7 cm
Mixing Duration	4-5 minutes
Mortar Resting Duration	10 minutes
Ready Mortar Usage Duration	6 hours
Usage Duration	20 minutes
Package Type	20 kg kraft bag
Storage Life	12 months in a dry environment

 HEAT INSULATION	 WATER INSULATION	 FIRE INSULATION	 SOUND INSULATION	 WINDING	 NATURAL, HEALTHY GREEN
 INSECT PROOF	 EARTHQUAKEPROOF	 STABLE INSULATION VALUE	 ECONOMIC	 EASY AND SERIAL APPLICATION	 TEXTURE COMPATIBILITY LONGEVITY

Safety Warnings

- No application on hot surface
- Must wear mask and gloves while mixing the material
- In case of contact with eyes rinse immediately
- Must be stored in a humid free and dry environment

SURFACE PREPARATION

The roughness should be removed from the application surface in order to provide better performance from the product. Dirt, oil, dust, swelling paint, lime, debris etc. should be removed and the surface should be made ready for application and then it should be slightly moistened.

CAUTIONS

Since **TermoBor Ecologic Lightweight Screed** is a water based product; attention should be paid to the weather conditions during preparation of the mortar before application. Precautions must be taken against risk of freezing for the surface before and after the application. The amount of water used for the mortar must be mixed at the specified amount; no extra water should be added, **it must be consumed at once after the bag has been opened.**

MIXING METHOD

10-12 liters of clean water is added to the vats and 12 kg of **TermoBor Ecologic Lightweight Screed** is drained and completely added. The mortar vat should be thoroughly cleaned beforehand and the sediments accumulated on the edge of the vat when mixing should be thoroughly stripped with a steel trowel and mixed again. Then it is mixed with a 500-600 rpm mixer for 4-5 minutes until it becomes homogeneous. After mixing, the mortar is rested for 10 minutes and if necessary, 1 more liter of water is added according to the consistency and mixed again and it is ready for application. The usage duration of the mortar is 6 hours.

APPLICATION

TermoBor Ecologic Lightweight Screed can be applied using plastering machine or steel trowel. Prepared **TermoBor Ecologic Lightweight Screed** is applied in 2-7 cm thickness. After application the surface is gently smoothed with a trowel. Application environment temperature is between +5°C and +40°C.



TermoRet WetCoat-07 Impregnate Insulation Chemical

Wet Coat Impregnate
(Waterbase) Resin



TermoRet® Impregnate WetCoat-07

Definition

It is used to impregnate screed, concrete, brick, ytong, natural stone, betopan, polyester, degreased aluminum like surfaces that are non-absorbent and absorbent. In case it is used as a topcoat after satin plaster it saves 30% in paint consumption.

It provides a pushing elastic plate formation between the water and horizontal and vertical surfaces. Penetrating into small cracks up to 0,2 - 0,3 mm wide that may occur in joints, it fixes the isolation. In practice, it interprets how many layers the user applied visually with the passive water blue color. It provides a transparent appearance after the 24-hour drying process is over.

It is used in automatic spray guns or rolls while applying single component chemical resin.

Technical Specifications

Color	Passive water blue (94-95% transparent when crystallized)
Scent	Characteristic
Viscosity	135-160 cps @22°C
Free Monomer	Max 0,2%
Reactive Specs	Unavailable
pH	7,0 - 7,5
Specific Gravity	1,05
VOC (volatile carbon)	0
Package Type	30 Kg barrel
Storage Life	0-22°C 2 years when stored in shadow

Safety Warnings

- Must not be stored in variable thermal environment.
- Must not be exposed to Sun light or heat.
- Must be kept in a cool place and room temperature.
- Must not be put on a concrete surface where it's kept.
- Must not leave the cap open during usage.

Solution for Moisture, Mold, Damp, Mushroom Formation and Wall Cleaning



USAGE and GENERAL CHARACTERISTICS

TermoRet must NOT be diluted with water before application. (It must not be forgotten that altering the amount of substance will seriously affect the quality of performance.) The application surface (considering the weather conditions) should be applied once. It must be applied to dry areas considering the soil structure. This application phase should be done considering the situation of the structure.

Some floors or compartments must be cleaned from paint, slag, layer and coating structures. (Hot air, flame gun, wire brush, passive wiping stone, chemicals must be applied.)

It cannot function on ceramic, rusty or smooth metal-marble surfaces. However to the degreased surfaces, especially on aluminum surfaces, it can be applied with 60-minute interval between each coat in 3 layers. At the end of the operation any type of mortar can be applied to the frame. It provides a film coating to prevent corrosion.

TermoBan Pudry-11811

Dark green and/or yellow solvent based and double component MA-Polyurethane Liquid Film.



TermoBan® PUDRY-11811

Definition

TermoBan Pudry-11811 is dark green and/or yellow solvent based and double component MA-PU Liquid film. It claims resistance against heat and passive tensions.

Technical Specifications

Color	Hard static Green or Yellow
Viscosity	sp3 6 rpm. 8000 - 4000 mPa.s
Appearance	Liquid
Specific Gravity	1,27 g/cm ³
Solid Content	32% (±1)
Boiling Point	> 170 °C
Flash Point	> 45 °C+
Package Type	25 Kg barrel
Storage Life	When stored in a 0-18 °C cool place in reserved condition it must be consumed within 1 year in its original container

Safety Warnings

- It must NOT be located in a variable thermal environment.
- It must NOT be exposed to sunlight or heat.
- It must be stored in a cool place at room temperature.
- It must NOT be placed on a concrete floor where it is stored.
- The cap must NOT be left open during usage.



Solution for Superior Resistance Water Insulation Against Heat and Passive Tensions



USAGE and GENERAL CHARACTERISTICS

As it is applied to C-40-C50 Exposed Concrete surfaces after TermoRet application, it is directly applied to plasterboard (Alçıpan) , Betopan, OSB, Acrylic and Polyester plates.

On Aluminum or Sheet (Steel) plate and / or profile materials "Surfaces must be degreased" and it can only be applied on the surfaces supported with TermoWet.

"TermoBan Green" double component Liquid MA.PU. is a resin film and elastic. Both mixtures have to be mixed. Min 2% - max 3% hardening agent has to be added in 1000 g. TermoBan, which is the main resin. After adding, it must be mixed for 50-60 seconds manually with hand at low speed.

When TermoBan Resin and Hardener component is mixed it must be applied within 3 or 4 hours without air contact (Indoor/barrel/can etc.) Otherwise, its performance lowers and during the following hours it stales-spoils. During the post 24 hour period it becomes Thermosetting.

It is applied in nozzle tank machines or via nozzle guns. Gun chamber must be from above. TermoBan must be applied without having the surfaces exposed to high temperatures.

Application Amount : Between 200 g/m² - 320 gr/m² is enough.

Nozzle Nipple : Must be 3mm.

Ambient Temp. : Must be between 0-30 degrees.

Standard Color : Dark Green

TermoWet 011-Filling Resin Insulation Lamination Paste

Perlite modified insulation
lamination product



011-FILING

Definition

TermoWet 011/Filling resin isolation basalt paste.

Except for Betopan, OSB and EPS plates it is especially used in Dilatation Channel gaps and Aluminum Galvanize points of junction and Screw Anchor places and doweled joint points.

In general, it is inconvenient to walk on or carry things on it. Kg consumption = 1,5 - 3 mm thickness in its own inertia 1200/1600 gr/m² on average.

Technical Specifications

Color	Hard blue (95% opaque when crystallized)
Odor	Characteristic
Appearance	Solid-liquid
Flashpoint	> 130 °C
pH	28-30
Solid substance content including basalt	82,00 %±1
VOC (volatile carbon)	0
U.V. durability	Good
Package	60 Kg barrel with plastic cap
Storage	When stored in 0 - 18°C shadow reserved in its original container; it must be consumed in 1 year the latest.

Safety Warnings

- It must NOT be located in a variable thermal environment.
- It must NOT be exposed to sunlight or heat.
- It must be stored in a cool place at room temperature.
- It must NOT be placed on a concrete floor where it is stored.
- The cap must NOT be left open during usage.



Elastic Barrier in Channel Gaps



USAGE and GENERAL CHARACTERISTICS

Passive elastic resin with single component basalt support chemical is applied via compressor and wide nozzle gun or roll. It provides perfect grip through the depth of the cross-section. Due to its characteristic structure, with a little support it is smoothed on its own.

Thanks to its special formula, it stops foam forming and thus it provides the ease to work at high speed. Especially at dark surfaced sensitive works it is a high performance basalt resin that gives very good results. However, it must definitely be rested for 72 hours after application.

The floor to be applied must absolutely be wet and not at high humidity.

In some situations TermoWet 011/Filling Resin is applied after TermoRet application. Thanks to its surface active contents it provides such perfect spreading and wetting that no deformation is formed on the surface.

It is not diluted with water and forms an elastic barrier to hold onto the floors.



www.termobor.com.tr

**TermoBor**[®]

Çanakkale Bor Yalıtım Malzemeleri
İnşaat Sanayi ve Tic. Ltd. Şti.



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