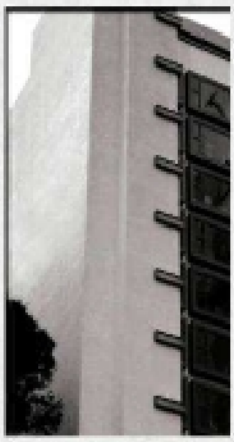
Thermolock

"New Generation Construction Materials"



"Optimum Solutions in Naturally Insulated Plaster Technology

THERMOLOCK PLASTER AND CEMENT PRODUCTS

In the general meaning, insulation is the protection of our life areas. It is provided on four main fundamentals as heat, water, sound and fire insulation. That is why we cannot have a complete insulation only by insulating our buildings from water or heat. Besides, some handicaps can occur during the application of four insulators.

Insulation is a sensitive subject and when wrong materials are used for insulation, its losses will be more than its profits.

It is necessary for the economies of the country and the world to make insulation in natural ways by reducing the negative affects to the minimum.

Thermolock products are natural insulators and leveling materials acquired by blending various aggregates of the nature (pumice, pearlite) with high technology.

Besides heat, water and fire insulation **Thermolock** combines four main fundamentals of a complete insulation in a single product. The building doesn't need an extra plaster or leveling. The products are designed to meet these needs.

Thermolock

"New Generation Construction Materials"

To be applied on outer facades, multi purpose single component insulation plasters are produced in A1 non-flammable class in white color, having a characteristic of high diffusion (breathing). They insulate buildings from heat, sound, water and fire with the high technology of production and inorganic natural aggregates in their content.

USAGE AREAS

They are applied directly on outer facades of buildings, including load bearing systems (rough coat, finish plaster, brick, aerated concrete, pumice concrete, concrete surfaces, briquette etc.). There is no need for extra adherence materials. It is possible to obtain many types of decorative surfaces.

***Thermolock** can be used in raw constructions and buildings which are currently used by people for the purposes of insulation and alteration. In such applications we recommend the usage of our product on condition that the materials on surfaces like paint and mineral plasters, which form a film layer on the surface, are purged at least in the level of 70%.*

PREPARATION OF PLASTER

A pack of KF-S 011 Thermolock outer facade plaster is poured into a clean vessel. Approximately 15 litres of water is added and they are mixed for 6-7 minutes with a mixer in low revolution.

APPLICATION OF THERMOLOCK

The surface of application is purged from dust, dirt etc. The facade is leveled with ano and net corner beads, then ano and bead intervals are filled and after jigging the first phase is finished. KF-S 011 Thermolock becomes ready glazing for approximately 4 hours later. In the second phase KF-S 011 Thermolock is applied on ready jigged surface in a layer of 0,5 cm thickness with spud. KFS- 011 application is finished by using appropriate tools for the preferred decorative surface choices (like steel spud, trifolium kinds, roller, sponge etc.). KF-S 011 Thermolock outer facade plaster can be painted after 48 hours. There is also no obstacle to apply all kinds of decorative works which can be applied on sand like jamb and precast.

Outer facade plaster with insulation

IMPORTANT ISSUES

- *The content of a pack of KF-S 011 Thermolock must be used completely when the pack is opened.*
- *The product must be mixed with a mixer or concrete mixer (for minimum 6 minutes).*
- *For preparation of ThermolockKF-S 011 Only determined amount of water (15 lt) must be used for the preparation of Thermolock KF-S 011.*
- *If the mixture prepared with Thermolock KF-S 011 waits too much in the vessel and loses its consistency, you mustn't add water. Consistency can be renewed only by mixing with a low revolution mixer.*
- *To apply KF-S 011 Thermolock on surfaces including paint, mineral plaster and different coatings, you should purge the surface from these materials approximately in a rate of %70 by using paint remover chemicals, indentation and similar methods.*

HEAT INSULATION LIGHTWEIGHT BREATHES SOUND INSULATION WATER INSULATION NON-FLAMMABLE

KF-S 011

KF-S 020 Thermolock interior facade plaster is a strong plaster providing heat, sound and fire insulation and it doesn't need an extra plaster in interior facades. It is produced in white or grey color according to preferences. It has a long life and is not deformed by possible leakages or moisture content due to its strong structure. It is an economic and practical construction and insulation material having A1 class non-flammable characteristic.

AREAS OF USAGE

Insulation of life areas in interior facades, especially from heat losses, with Thermolock KF-S 020 avoids other construction elements in the building (walls, columns, beams etc.) to absorb heat and affect the heat of the environment. By this affect of heating and cooling only the air, there will be a high level of energy saving. Heating in the winter and cooling in the summer will be provided in a shorter time. Satinning or painting can be done after 48 of application. It is possible to obtain many types of decorative surfaces. (We recommend the usage of water based paints in order not to loose the breathing characteristic.)

PREPARATION OF PLASTER

A pack of KF-S 011 Thermolock outer facade plaster is poured into a clean vessel. Approximately 15 litres of water is added and they are mixed for 6-7 minutes with a mixer in low revolution.

APPLICATION OF THERMOLOCK

The surface of application is purged from dust, dirt etc. The facade is levelled with ano and net corner beads, then ano and bead intervals are filled and after jigging the first phase is finished. KF-S 011 Thermolock becomes ready glazing for approximately 4 hours later.

In the second phase KF-S 029 Thermolock is applied on ready jigged surface in a layer of 0,5 cm thickness with spud. KFS- 020 application is finished by using appropriate tools for the preferred decorative surface choices (like steel spud, trifolium kinds, roller, sponge etc.). Satin, paint, stropier, carton-pierre and similar applications can be done on KF-S 020 Thermolock interior facade plaster when 48 passes after the application.

Interior facade plaster with insulation

IMPORTANT ISSUES

- *The content of a pack of KF-S 020 Thermolock must be used completely when the pack is opened.*
- *The product must be mixed with mixer or concrete mixer (for minimum 6 minutes).*
- *Only determined amount of water (15 lt) must be used for the preparation of Thermolock KF-S 020 .*
- *If the mixture prepared with Thermolock KF-S 020 waits too much in the vessel and loses its consistency, you must not add water. Consistency can be renewed only by mixing with a low revolution mixer.*
- *To apply KF-S 020 Thermolock on surfaces including paint, mineral plaster and different coatings, you should purge the surface from these materials approximately in a rate of %70 by using paint remover chemicals, indentation and similar methods.*

KF-S 020

HEAT INSULATION LIGHTWEIGHT BREATHES SOUND INSULATION WATER INSULATION NON-FLAMMABLE

Thermolock KF-S 012 A1 non-flammable filling material is an economic multi purpose product which can be consumed in grey or white colors.

Thermolock KF-S 012 A1 nonflammable filling is designed to reduce product wastage costs on areas where plaster thickness with insulation should be thick or in case the losses are much in surface leveling of walls and it is also designed to be used on surfaces needing non-flammable coating like electricity switchboards. It has heat, sound and fire insulation and has no decorative characteristic.

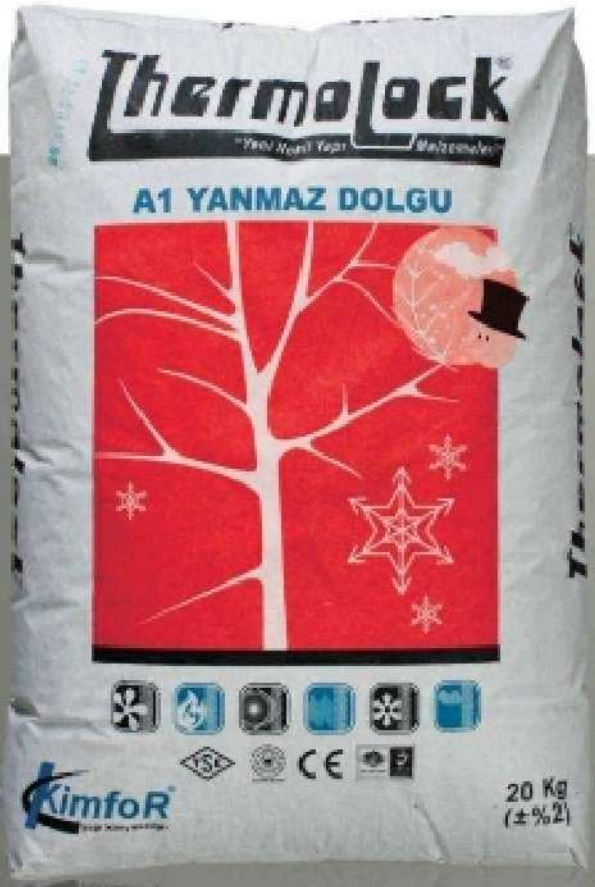
APPLICATION

The surface of application is purged from dust, dirt etc. The facade is leveled with ano and net corner beads, then ano and bead intervals are filled and jigged. It will be ready for last layer with KF-S 011 outer or KFS 020 Thermolock interior facade plaster approximately after 4 hours.

A1 Non-flammable filling

IMPORTANT ISSUES

- *The content of a pack of KF-S 020 Thermolock must be used completely when the pack is opened.*
- *The product must be mixed with mixer or concrete mixer (for minimum 6 minutes).*
- *Only determined amount of water (15 lt) must be used for the preparation of Thermolock KF-S 012 M.*
- *If the mixture prepared with Thermolock KF-S 012 waits too much in the vessel and loses its consistency, you must not add water. Consistency can be renewed only by mixing with a low revolution mixer.*
- *To apply KF-S 012 Thermolock A1 on surfaces including paint, mineral plaster and different coatings, you should purge the surface from these materials approximately in a rate of %70 by using water jet, paint remover chemicals, indentation and similar methods.*
- *Thermolock KF-S 011 outer facade plaster with heat insulation on outer facades and Thermolock KF-S 020 interior facade plaster in interior facades is applied on KF-S 012 Thermolock A1 filling as the last layer in at least 1 cm thickness.*



HEAT INSULATION LIGHTWEIGHT BREATHES SOUND INSULATION WATER INSULATION NON-FLAMMABLE

KF-S 012

TERRACE Leveling cement with insulation

Thermolock terrace cement is used to insulate horizontal surfaces of buildings like terrace and balconies which are subject to the direct affects of buildings like rain and snow against heat, cold, water, moisture and fire. It is applied directly on table concrete and provides complete insulation and leveling.

APPLICATION

Thermolock KF-T100 terrace cement is presented to consumers in 25 kg. kraft packs in powder form. It is poured in a clean vessel and 15 lt water is added. It is mixed with a low revolution mixer for 8 - 10 minutes. Cement mixture is filled on table which was leveled beforehand with ano (with flow slope) and jigged. Jigged surface is leveled with steel cement spud. Surface junction points like parapets and chimneys are beveled and 15 cm Thermolock is applied on parapets in the vertical line.

KF-T 100

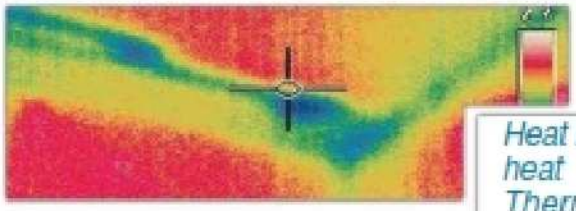
ADVANTAGES OF THERMOLOCK PRODUCTS

01

They don't terminate diffusion (breathing) characteristic of our buildings and by this way do not cause moisture and bacteria formation.

02

They don't create an extra weight to buildings. Its weight is 330 to 360 kg/m^3.



03

Heat bridges occur in materials with jointed structure and heat losses increase by widening of these bridges. Thermolock avoids formation of heat bridges with its structure with no joints.

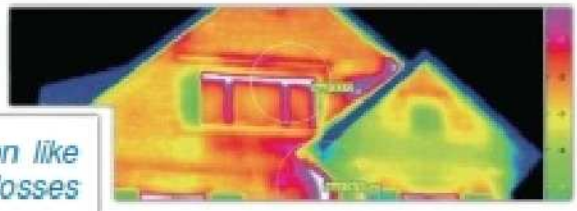
04

Thermolock's life is equal life to the building's life unlike the materials with little life which are deformed in a few years.

05

Bacteria, insects and similar living beings cannot live in its structure. It is antibacterial.

06



It is applied easily to places of difficult insulation like glass edges and parapets and it avoids energy losses from these areas.

07

It cannot be deformed with simple impacts. (It is a cement of CSII class).

08

It is ecological, does not create any poisonous materials or gasses during its production and it is

09

Thermolock *is economic. With a single product and workmanship it meets plaster and insulation needs of buildings as it does not need any plaster, coating or adherence material before or after application.*

10

Thermolock *can be easily applied for thick application needs with leveling errors and does not make slouching or yielding.*

11

Thermolock *is not affected from U. V. and external factors. However, in case it is subjected to deformations like building settlement or earthquake crack it can easily be repaired.*

12

Thermolock is a natural product and it doesn't have negative affects to our health. It doesn't include carcinogenic materials.

13

It provides heat, water, sound and fire insulation.

14

It is possible to obtain many types of surfaces with decorative purposes. Materials like jambs, precast etc. can easily be applied on it.

15

Thermolock is an A1 class nonflammable material. Unlike flammable or poisonous gas evaluating materials with heat, it creates a fire barrier for your buildings.

Outer facade plaster with insulation

Package Type	20kg.Kraft Pack
Appearance	Powder with White Gran.
Dry Density	333+-%10(kg/m,)
Heat Conductivity	0,060 (W/mk) T1
Sound Insulation	25 Db
Compressive Strength	1,638 (N/mm') **CSII**
Bond Strength	0,319 (N/mm²)
Water Absorption	0,312 (kg/m'min 0.5) W1
Fire Strength	(1000C°)
Ready-Time for Paint	48 Hours
Shelf Life	16 Months
Application Temp. Interval	+5C° to +35C°
Application Type	Machine or Steel Spud
Consuming	1 cm/m² app. 5 kg.

Interior facade plaster with insulation

Package Type	20kg.Kraft Package
Appearance	Powder with White Granules
Dry Density	380±%10(kg/m3)
Heat Conductivity	0.064 (W/mk) **T1**
Sound Insulation	25 Db
Compressive Strength	1.67 (N/mm*) **CSII**
Bond Strength	0,368 (N/mm*)
Fire Strength	(1000C°) A1
Ready-Time for Paint	48 Hours
Shelf Life	16 Months
Application Temp. Interval	+5℃ to +35C°
Application Type	Machine or Steel Spud
Consuming	1 cm/m² app.4,5 -5 kg.

A1 Un-flammable filling

Package Type	20kg.Kraft Package
Appearance	Powder with White Gran.
Dry Density	333+-%10(kg/m,)
Heat Conductivity	0,060 (W/mk) T1
Sound Insulation	25 Db
Compressive Strength	1,638 (N/mm') **CSII**
Bond Strength	0,319 (N/mm^2)
Fire Strength	(1000C°)A1
Ready-Time for Paint	48 Hours
Shelf Life	16 Months
Application Temp. Interval	+5C° to +35C°
Application Type	Machine or Steel Spud
Consuming	1 cm/m^2 app. 5 kg.

1- 15 lt water is poured to a clean vessel
2- A pack of Thermolock is opened and poured into the vessel
3- It is mixed with a low revolution mixer for 6-7 minutes
4- The surface, which was leveled with anos and corner studs, is filled with Thermolock
5- Jigged with metal jig. Thermolock will be ready for the application of last layer after 4 hours.
6- A layer of 0,5 cm thickness is applied on jigged surface with a steel spud. Appropriate tools (steel spud types, roll, sponge etc.) are use for the preferred decorative surface choices and Thermolock application is finished.

Application

ThermoLock

"New Generation Construction Materials"

For comfortable life areas...

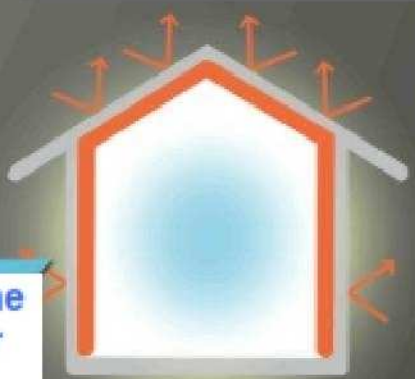
ThermoLock

"New Generation Construction Materials"

Outer facade plaster with insulation
TERRACE leveling cement with ins.
Leveling cement with ins.
Normal plaster heat values
Surface hardener
Grouting (Fuga)1-8mm
Grouting (Fuga) 8-16mm
Walling mortar

Interior facade plaster with ins.
Insulating board adhesive
Insulating board cement
Water sealant
Granite & Coating stone adhesive
Glazed Tile & Ceramic adhesive
Plus adhesive
Decorative plaster

Warm in the Winter



Cool in the Summer