

**UNITECH**Isam Kabbani Group of Companies
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PU INSULATION

POLYURETHANE TRIS INSULATION

T R I S

PRODUCT DESCRIPTION

One-component polyurethane thermal insulation "TriS" is designed for thermal and sound insulation of facades, loggias, verandas, mansards, attics, basements, pipelines and utility supply lines, and systems, isothermal wagons, vans and analogical vehicles, garage and warehouse gates, industrial buildings and structures.

Made of special polymer materials (not to be confused with mounting foam). Excellent adhesion to all building materials. It does not require pre-leveling of the surface, installation of the frame, sealing, auxiliary materials and tools. Low thermal conductivity. Is not pervious and does not absorb moisture.

«TriS» is easy to use, does not require special skills (adjustable thickness of the insulation layer from 1.5 cm² (up to 3m in the container). Seamless insulation, no thermal bridges. Great for use in hard to reach places. Maximum penetrates into all joints and cracks of the insulated surface.

TECHNICAL DATA

Base	polyurethane
Consistency	stable foam (after curing)
Color	green-blue
The formation of the surface film	35-40 minutes*
The structure on the cut	medium-fine, uniform
Additional layer	after 20 minutes*
FuLL polymerization time	60 minutes*
Density	11-20 kg/m ³
Outcome	up to 2 m ²
Effective service Life	50 years
Force at 10% elastic deformation	0.04 mPa
Heat resistance of hardened foam	-65°C..+125°C
Coating thickness	15-70mm
Coefficient of thermal conductivity	0.023-0.025 W / mK (at 20°C)
Sticking properties (adhesion):	
-concrete, brick	3.0 kgf/cm ²
-aluminum	1,2 kgf/cm ²
-wood, plywood	3.0 kgf/cm ²
-cast iron	2,5 kgf/cm ²



ADVANTAGES

Economy Excellent adhesion.

Does not require installation of the frame and special skills.

High performance*

STORAGE: Store in a vertical position with the valve facing up in a cool dry place at an ambient temperature of +5°C to +25°C.

DO NOT STORE THE CONTAINER IN DIRECT SUNLIGHT OR HEAT ABOVE 50°C!

* OUTPUT UP to 2 m

The contents of the container are under pressure! Shelf life of 18 months in compliance with the rules of storage. The date of manufacture is indicated on the bottom of the container *at a temperature of + 23°C and a relative humidity of 50% The coating layer should not be thicker than 3 cm.

PRECAUTIONARY MEASURES

Not hardened polyurethane foam insulation irritates the skin, respiratory tract, eyes. During operation it is necessary to use gloves and protective glasses, in case of insufficient ventilation and high concentration of the vapor — respirator.

In case of contact with the skin, rinse with acetonebased solvent or "TriS" cleaner, then rinse with soap and water.

In case of contact with eyes — immediately rinse eyes with water and consult a doctor.

The foaming reagent is heavier than air and belongs to combustible substances. Work in a well-ventilated area.

Do not smoke or use sources of open fire, sparks, devices with open heating elements in the working room.

INSTRUCTION

Clean work surfaces from dust, dirt and oil stains. It is recommended to slightly moisten porous surfaces using a spray gun. Recommended temperature of the container prior to use: +18°C - +25°C.

ABILITY TO WORK AT LOW TEMPERATURES UP TO-1 5°C WITH PREHEATING OF THE CONTAINER AND THE APPLICATION SURFACE.

Shake the container thoroughly. Screw on the gun. Open gun valve as much as possible. Put on the tip of the gun a special nozzle (included). Use only when fully pulling the trigger of the gun. The spraying layer should be no thicker than 3 cm (if an additional layer is required, apply after 20 minutes).

During the work the container with the gun should be periodically shaken. After applying the insulation, it is recommended to slightly moisten the surface with a spray, this will provide the best characteristics of the product after drying.

For cleaning of the gun and removal of muddiness from insulation use a special cleaning liquid "TriS". Frozen polyurethane insulation is removed mechanically.

Complete polymerization occurs after 24 hours, but objectively assess the degree of materials flammability is possible after a few months after the disappearance of propellant from the structure of the insulation.

After hardening, the insulation is absolutely harmless to humans and animals. However, it is absolutely not fit for consumption!





PU INSULATION

X-TERM INSULATION SYSTEM

T R I S

PRODUCT DESCRIPTION

One-component polyurethane thermal insulation "TriS" is designed for thermal and sound insulation of facades, loggias, verandas, mansards, attics, basements, pipelines and utility supply lines, and systems, isothermal wagons, vans and analogical vehicles, garage and warehouse gates, industrial buildings and structures. Made of special polymer materials (not to be confused with mounting foam).

Excellent adhesion to all building materials. It does not require pre-leveling of the surface, installation of the frame, sealing, auxiliary materials and tools. Low thermal conductivity. Is not pervious and does not absorb moisture. "TriS" is easy to use, does not require special skills (adjustable thickness of the insulation layer from 1.5 cm (up to 3m' in the container). Seamless insulation, no thermal bridges. Great for use in hard to reach places. Maximum penetrates into all joints and cracks of the insulated surface.

TECHNICAL DATA

Base	polyurethane
Consistency	stable foam (after curing)
Color	green-blue
The formation of the surface film	35 -40 minutes*
The structure on the cut	medium-fine, uniform
Additional layer	after 20 minutes*
FuLL polymerization time	60 minutes*
Density	11-20 kg/m3
Outcome	up to 2 m2*
Effective service Life	50 years
Force at 10% elastic deformation	0.04 mPa
Heat resistance of hardened foam	-65 °C...` +125 °C
Coating thickness	15 -70 mm
Coefficient of thermal conductivity	0.023-0.025 W / mK (at 20°C)
Sticking properties (adhesion):	
-concrete, brick	3.0 kgf/cm ²
-aluminum	1,2 kgf/cm ²
-wood, plywood	3.0 kgf/cm ²
-cast iron	2,5 kgf/cm ²



ADVANTAGES

Economy Excellent adhesion.

Does not require installation of the frame and special skills.

High performance*

STORAGE: Store in a vertical position with the valve facing up in a cool dry place at an ambient temperature of +5°C to +25°C.

DO NOT STORE THE CONTAINER IN DIRECT SUNLIGHT OR HEAT ABOVE 50°C!

* OUTPUT UP to 2 m

The contents of the container are under pressure! Shelf life of 18 months in compliance with the rules of storage. The date of manufacture is indicated on the bottom of the container *at a temperature of + 23°C and a relative humidity of 50% The coating layer should not be thicker than 3 cm.

PRECAUTIONARY MEASURES

Not hardened polyurethane foam insulation irritates the skin, respiratory tract, eyes. During operation it is necessary to use gloves and protective glasses, in case of insufficient ventilation and high concentration of the vapor — respirator.

In case of contact with the skin, rinse with acetonebased solvent or "TriS" cleaner, then rinse with soap and water.

In case of contact with eyes — immediately rinse eyes with water and consult a doctor.

The foaming reagent is heavier than air and belongs to combustible substances. Work in a well-ventilated area.

Do not smoke or use sources of open fire, sparks, devices with open heating elements in the working room.

INSTRUCTION

Clean work surfaces from dust, dirt and oil stains. It is recommended to slightly moisten porous surfaces using a spray gun. Recommended temperature of the container prior to use: +18°C - +25°C.

ABILITY TO WORK AT LOW TEMPERATURES UP TO-1 5°C WITH PREHEATING OF THE CONTAINER AND THE APPLICATION SURFACE.

Shake the container thoroughly. Screw on the gun. Open gun valve as much as possible. Put on the tip of the gun a special nozzle (included). Use only when fully pulling the trigger of the gun. The spraying layer should be no thicker than 3 cm (if an additional layer is required, apply after 20 minutes).

During the work the container with the gun should be periodically shaken. After applying the insulation, it is recommended to slightly moisten the surface with a spray, this will provide the best characteristics of the product after drying.

For cleaning of the gun and removal of muddiness from insulation use a special cleaning liquid "TriS". Frozen polyurethane insulation is removed mechanically.

Complete polymerization occurs after 24 hours, but objectively assess the degree of materials flammability is possible after a few months after the disappearance of propellant from the structure of the insulation.

After hardening, the insulation is absolutely harmless to humans and animals. However, it is absolutely not fit for consumption!



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"EASY-TERM" POLYURETHANE FOAM INSULATION SYSTEM

T R I S

PRODUCT DESCRIPTION

Designed for heat and sound insulation. Made of special polymer materials (not to be confused with mounting foam). It has excellent adhesion to building materials. EASY-TERM system is equipped with a thin pipe, convenient to use, does not require special skills.

The EASYTERM insulation system is economical compared to others building materials that are used for thermal insulation. Great for applications in hard-to-reach places. Allows you to reliably and quickly insulate any surfaces in a room or building.

Can be used for heat and sound insulation loggias, facades, attics, industrial premises, apartments, vans, as well as pipelines and other types of engineering communications.

TECHNICAL DATA

Base	polyurethane
Consistency	stable foam (after curing)
Color	green-blue
The formation of the surface film	35 -40 minutes
The structure on the cut	medium-fine, uniform
Additional layer	after 20 minutes
FuLL polymerization time	60 minutes
Density	11-20 kg/m ³
Outcome	up to 2 m ²
Effective service Life	50 years
Force at 10% elastic deformation	0.04 mPa
Heat resistance of hardened foam	-65°C...+125°C
Coating thickness	15 -70 mm
Coefficient of thermal conductivity	0.023-0.025 W / mK (at 20°C)
Sticking properties (adhesion):	
-concrete, brick	3.0 kgf/cm ²
-aluminum	1,2 kgf/cm ²
-wood, plywood	3.0 kgf/cm ²
-cast iron	2,5 kgf/cm ²



ADVANTAGES

- Equipped with an additional thin pipe
- Easily fits on ceilings and suspended structures
- Economical
- It has excellent adhesion
- Does not require installation of frames
- No special skills required
- High labor productivity

INSTRUCTION FOR USE

Clean work surfaces from dust, dirt and oil stains. Recommended temperature of the container prior to use must be: +18°C - +25°C. Shake the container thoroughly. Put on special

nozzle - thin pipe (included). The coating layer should not be thicker than 5 cm (if an additional coat is required, apply after 20 minutes).

During the work the container with the gun should be periodically shaken. For cleaning of the nozzle - thin pipe and removing mudding after insulation use a special cleaning liquid "TriS".

Frozen NPU is removed mechanically.

PRECAUTIONARY MEASURES

Not hardened polyurethane foam insulation irritates the skin, respiratory tract, eyes.

During operation it is necessary to use protective gloves and goggles, when is insufficient ventilation and high concentration of vapors - it is necessary to use a respirator.

In contact with the insulation on the skin wash off with acetone-based solvent or Tris foam cleaner, after that rinse with soap and water.

In case of contact with eyes — rinse eyes immediately with water and consult a doctor.

The foaming reagent is heavier than air and belongs to combustible substances.

Work in a well-ventilated area. In the working room do not smoke or use sources of open fire, sparks, devices with open heating elements. PRECAUTIONARY MEASURES: DO NOT

STORE THE CONTAINER IN DIRECT

SUNLIGHT OR HEAT OVER 50°C!



LOCATIONS

KIGDOM OF SAUDI ARABIA

unitech.ksa@ikkgroup.com

Jeddah

Tel : +966 12 627 8222
Fax: +966 12 627 8722

Jeddah - Ghurab Showroom

Tel : +966 12 667 2000
Fax: +966 12 661 4306

Mak kah/Taif

Tel : +966 12 541 1206
Fax: +966 12 532 1675

Mad inah

Tel : +966 14 842 1095
Fax: +966 14 842 1090

Yanbu

Tel : +966 14 390 1499
Fax: +966 14 322 7101

Khamis Mushayt

Tel : +966 17 237 5929
Fax: +966 17 237 8783

Najran

Tel : +966 17 546 3873
Fax : +966 17 546 3873

Al Baha

Tel : +966 17 237 5929
Fax: +966 17 237 8783

Sharorah

Tel : +966 17 532 8153
Fax: +966 17 532 8153

Gizan

Tel : +966 17 321 6660
Fax: +966 17 321 0665

Riyadh North

Tel : +966 11 415 5465
Fax: +966 11 456 6627

Riyadh South

Tel : +966 11 448 0112
Fax: +966 11 447 7421

Riyadh West

Tel : +966 11 431 6271
Fax: +966 11 431 7642

Riyadh East

Tel : +966 11 448 0112
Fax: +966 11 447 7421

Qassim / Buraidah

Tel : +966 16 382 3946
Fax: +966 16 385 2186

Hail

Tel : +966 16 543 3931
Fax: +966 16 543 3935

Skakah / Qurayyat

Tel : +966 14 626 3904
Fax: +966 14 626 3905

Tabuk

Tel : +966 14 423 5203
Fax: +966 14 423 5203

Hafr el Batin

Tel : +966 13 729 3644
Fax: +966 13 729 3644

Dammam

Tel : +966 13 859 0097
Fax: +966 13 857 8177

Jubail

Tel : +966 13 361 4390
Fax: +966 13 362 4499

Hofuf

Tel : +966 13 530 1474
Fax: +966 13 530 7144

FACTORIES

SFSP - KSA

sfsp.jeddah@ikkgroup.com

Specialized Factory for Steel Products

3rd Industrial City / Jeddah

Tel: +966 12 637 4482
Fax: +966 12 636 1963

SFSP / UAE

sfsp.uae@ikkgroup.com

SIGMA Factory for Steel Products

DIC (Dubai Industrial City)

Tel : +971 4 818 1919

SFSP / Egypt

sfsp.cairo@ikkgroup.com

Specialized Factory for Steel Products

6th of October City Giza

Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

SFSP / Lebanon

sfsp.lebanon@ikkgroup.com

Specialized Factory for Steel Products

Tanayel, Bekaa

Tel: +961 8 514 290
Fax: +961 8 514 291

BAHRAIN

unitech.bahrain@ikkgroup.com

Manama

Tel : +973 17 874 897
Fax: +973 17 789 470

KUWAIT

unitech.kuwait@ikkgroup.com

Kuwait City

Tel : +965 2 4924 937
Fax: +965 2 4924 938

UNITED ARAB EMIRATES

unitech.uae@ikkgroup.com

Dubai - Al Rashidiyah

Tel : +971 4 2591 773
Fax : +971 4 2591 774

Abu Dhabi - Musaffah

Tel: +971 2 552 3393
Fax: +971 2 552 5499

OMAN

unitech.oman@ikkgroup.com

Muscat

Tel : +968 24 591 006
Fax : +968 24 597 006

JORDAN

unitech.jordan@ikkgroup.com

Amman

Tel : +962 6 556 3030
Fax: +962 6 554 7911

Aqaba

Tel : +962 6 556 3030
Fax: +962 6 554 7911

PAKISTAN

unitech.pakistan@ikkgroup.com

Karachi - Clifton

Tel-Fax : +92 21 35826120

EGYPT

unitech.egypt@ikkgroup.com

Cairo 6th of October City

Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

LEBANON

unitech.lebanon@ikkgroup.com

Beirut

Tel : +961 1 858 277
Fax: +961 1 858 276

ENGINEERING, DESIGN, MARKETING & MULTIMEDIA

Unitech Deutschland GmbH

Germany

unitech.germany@ikkgroup.com

Stuttgart

Tel : +49 711 6868 7222
Fax: +49 711 6868 7223

Multi-D s.a.r.l

Lebanon

multi-d@ikkgroup.com

Multi-d Beirut

Tel : +961 1 841 155
Fax: +961 1 841 156

R&D DEPARTMENT

Saih Suhaib-3, Opp DEWA Substation, Dubai Industrial City, Dubai, UAE

Tel : +971 4 818 1944 - Mob: +971 55 517 0841

Email: unitech.uae@ikkgroup.com - abed.demachkieh@ikkgroup.com