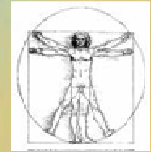
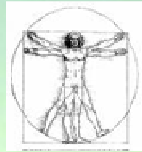


# **INSULATION TECHNOLOGY GROUP**



**THE SCIENCE AND TECHNOLOGY IN  
THERMAL INSULATION  
AND  
SOUND DAMPING SYSTEMS**

**INDUSTRIAL TECHNOLOGY GROUP**

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# **INSULATION OF NEW GENERATION: SYSTEMS APPLIABLE LIKE COMMON PAINTS**

**LOW THICKNESS: 4 - 8 mm**

**RESISTANT UP TO 250°C - TILL 350° C**

**TEMPERATURE REDUCTION 80 %**

**NO NANOTECHNOLOGIES**

**MADE IN ITALY**

- You apply as common paints: spray, brush, rolls, etc...
- Temperature of resistance: from -100°C to + 250°C - 350°C
- High fire resistance: fire-stopping products.
- Thermal conductivity: 0,020 W/mK.
- Heat reduction: till 80% of the temperature with 8 mm of thickness – reachable in two layers.
- You use instead of the conventional and traditional systems: fiber-glass, fiber-rock, polyurethane, etc.
- Products for-life: it is not necessary maintenance.
- Easy to be removed in case of maintenance
- Application speediness: 16 times faster than traditional systems.
- Acoustic insulation: 1-3 dB a 45 dB, according with the frequencies.
- Elimination of the problems of corrosion under insulation.
- They solve, at the same time, the problem of thermal insulation – acoustic insulation – anti-condenses – anti-corrosive, with the relative saving in not having to apply distinguished products.
- You can apply in every type of surface: glass, wood, cement, iron, steel – eventually you can use specific primers.
- Excellent for application in critical situations.
- Water based, extremely light, ecologic, no-toxic even in case of fire, it withstands to chemical and atmospheric agents.
- Time resistant, environment free, resistant to bugs and micro organisms, chemically inert, sterile and do not form particles flown.
- Customized products: we can customize the products according with your necessities.

## **INDUSTRIAL APPLICATIONS**

- Reservoirs, tanks, Cooling towers
- Valves and piping
- Industrial furnaces
- Refineries, Foudries, Oils and petrochemicals
- Automotive, industrial vehicles, bus: inside car, engine

## **MARINE APPLICATIONS**

- Engine area, Hexhaust systems
- air conditioning systems (elimination of the condenses)

## **CIVIL APPLICATIONS**

- Roofs and Walls

## PRODUCTS:

### FOAMING VERSIONS:

Volume Expansion: 600%

Thermal Lambda: 0.020

Working Temperature: -100°C +250°C

Fire-Stopping

High level of acoustic and vibration reduction



#### SHIELD COAT FOAM 400 TAP

Instantly Expansion with dedicated systems



#### SHIELD COAT FOAM 400 T70

Instantly Expansion with heating at 70°C



#### SHIELD COAT FIRE-STOPPING

Fire-Stopping / Intumescent

Reaction Starting at 150°C

High thermal insulation under direct fire contact



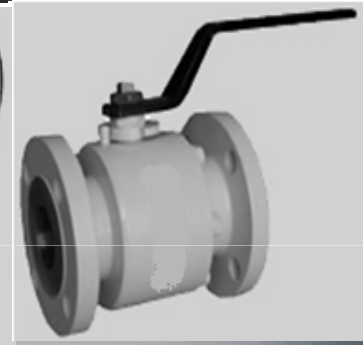
### NON-FOAMING VERSION:

Working Temperature: da -100°C +250°C

#### SHIELD COAT 250

Working Temperature -100°C° +250°C

Self-Estinguishable



### PANEL OVER-COATED WITH SHIELD COAT

#### SHIELD COAT PANEL

ISOVUL panel over-coated with Shield Coat

Thickness: from 0,5 to 2 cm



### FIRE-RESISTANCE GLUE

#### SHIELD COAT GLUE

Fire resistance glue with high mechanical resistance

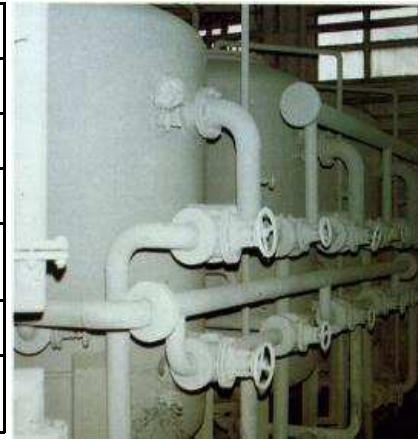


Products are:

- over-painting
- can be linked together, in order to obtain right answers to different thermal, acoustic and mechanical situations

## TECHNICAL DATA

Max temperature	250°C – till 350°C
<b>Thermal Conductivity</b>	<b>0,020 W/Mk</b>
VOC content	Zero
Weight	0,20 – foam 0.02 kg dry
Fire spread – Flame spread	Classe A1 - EN 13162:2012 (EN 13501-1)
Coat thickness	1 – 3 mm
Coverage: liters per square meters	From 0,60 to 1 lt/ kg per mm of thickness

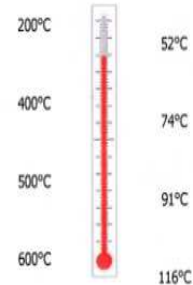


## THERMAL TEST

Thickness 8 mm	Temperature 200 ° C	we obtain 52° C
Thickness 8 mm	Temperature 400 ° C	we obtain 74° C
Thickness 8 mm	Temperature 500 ° C	we obtain 91° C
Thickness 8 mm	Temperature 600 ° C	we obtain 116° C



Lato caldo



Lato freddo

## ACOUSTIC TEST

Acoustic reduction with the product covering: Frequency Hz

ACOUSTICAL REDUCTION							
Reduction in Decibel according with the frequency							
Frequency Hz	188	366	585	881	1000	3000	5000
4 mm of thickness	9,3	11,5	10,7	11,6	10,8	10,9	11
8 mm of thickness	4	5,8	5,3	5,7	5,7	5,7	5,8
Plain pannel (no coating)	0	0	0	0	0	0	0



## CHEMICAL RESISTANCE

TEST CERTIFICATE		
CHEMICAL RESISTANCE		
TYPE	DETAILS	COMMENTS
DIESEL	100 % CONC. / 0,5 ml	MODERATE SOFTENING / NO SWELLING / NO BLISTERING / NO COLOR CHANGE
SULPHURIC ACID	10 % CONC. / 0,5 ml	
GASOLINE - UNLEADED	100 % CONC. / 0,5 ml	
HYDROCHLORIC ACID	10 % CONC. / 0,5 ml	
10W / 30W MOTOR OIL	100 % CONC. / 0,5 ml	
SODIUM HYDROXIDE	10 % CONC. / 0,5 ml	

