



FUTURA EUROPE SRL

Contrada Torbidello 26 - 63071 ROTELLA - AP

Tel. 0734 933227 Fax: 0734 917037

www.futuraeurope.com - info@futuraeurope.com

ASBESTOS ENCAPSULATION TECHNOLOGY & CERTIFIED MATERIALS



- Health risks
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- FUTURA Coating technology
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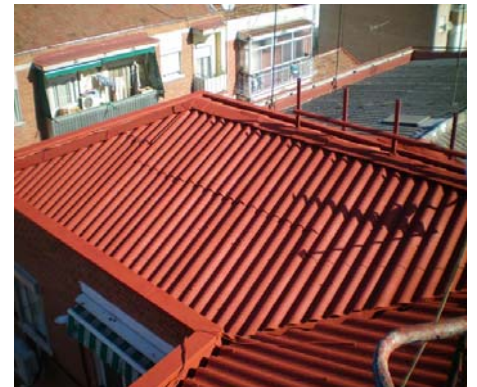
HEALTH RISKS



The presence of asbestos in a house is an environmental safety issue. Asbestos is a fibrous material that was used residentially for sound and heat insulation and fire protection. Asbestos is often found in houses of the 1950s and 1960s era in pipe and duct insulation on heating systems, in sealers on heating boilers, in roofing products, siding, stucco, plaster, drywall compound, panelling, ceiling tiles, floor tiles and sheet goods, wall and attic insulation and in asbestos-cement pipe. If disturbed, the very small asbestos fibers can cause cancer and other types of lung disease when inhaled. The fibers are so small and light that if released into the air, they may float for several days. In most building products, asbestos isn't normally capable of being released into the air. However, demolition or renovation work – or propane explosions – can disturb asbestos-containing materials, causing the asbestos fibers to be released.

WHAT TO DO WHEN IN THE PRESENCE OF ASBESTOS

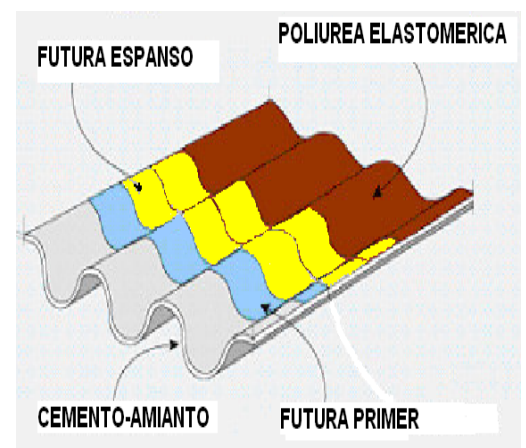
If an asbestos test confirms the presence of asbestos, you may be required to use specially trained contractors to remove the asbestos. Although this can be expensive, handling asbestos properly is both environmentally responsible and legally required. In addition, it can protect the health of you and other people who might use the structure in question. If you have a roof that contains asbestos, you don't need to worry as long as it remains in good condition. The problems that arise come about because as time passes the roof can get old and damaged. This could be due to a number of factors, such as weather and other environmental elements. If your roof is damaged, then you may be at risk when the cement starts to wear away, exposing the asbestos fibers. This problem should be dealt with immediately to prevent health risks and hazards.



ENCAPSULATION “FUTURA SYSTEM”

The asbestos encapsulation can save you the expense and time required to remove the complete roof.

This option eliminates the need to spend lots of money paying for the services of specialists in asbestos removal. The asbestos encapsulation requires a special coating or sealant be applied to the asbestos material to prevent the fibers from becoming airborne. This method is approved for the treatment of asbestos problems. Asbestos encapsulation must also be carried out by a trained person to ensure safety and be certain that the job will be carried out properly. When done correctly the asbestos encapsulation can even prolong the life of your roof. The products are non-toxic and safe. This lightweight solution can protect your roof from chipping, peeling, cracking, and also make your roof resistant to water and heat. Encapsulation provides an attractive finish to your roof potentially adding to your property's market value.



A1 Asbestos-containing materials: encapsulation (type A: external view)

A1.1 Apply a uniform coat of penetrating and consolidating primer (FUTURA EDILPRIMER o VFI 1007 PRIMER). Coverage:

10-15 mq per 3-4 liters on rough or porous surfaces.

Up to 40–60 mq per 3-4 liters on smooth surfaces.

A1.2 (Suggested) Apply “in situ” a coat of rigid polyurethane foam insulating and soundproofing FUTURA ESP with a density 60/70 Kg/m³ and thickness 3,00–8,00 cm.

A1.3 Apply “in situ” a coat of hybrid elastomeric polyurea (FUT 204 o VFI Alluminium) waterproofing and encapsulating properties, contrasting to the previous coverage color, thickness from 1.00 to 1.50 mm.

A2 Asbestos-containing materials: encapsulation (type B: internal view)

A2.1 Apply a uniform coat of penetrating and consolidating primer (FUTURA EDILPRIMER o VFI 1007 PRIMER). Coverage:

10-15 mq per 3-4 liters on rough or porous surfaces.

Up to 40–60 mq per 3-4 liters on smooth surfaces.

A2.2 Apply “in situ” a coat of hybrid elastomeric polyurea (FUT 204 o VFI Alluminium) waterproofing and encapsulating properties, contrasting to the previous coverage color, thickness from 0.50 to 0.60 mm.



FUTURA PRODUCTS



FUTURA polyurethane foam products act as thermal and acoustic insulators. These products are used in the building trade, in the cold industry, in vehicles for the transport of commodities. They give excellent thermal insulation thanks to the lowest possible thermal conduction. They are extremely lightweight and have high mechanical properties. Their reaction to fire is adequate for the intended uses. Their adhesion to almost all materials is stable and long lasting. And above all they do not alter in size at high or low temperatures. The production formulae vary according to the required use.



FUTURA elastomers have been created for use as protective waterproofing for both rough and smooth roofs in steel, masonry, metal, wood and polyurethane foam. They can also be applied on surfaces composed of different materials, such as: sheathing, cement, bricks, tiles. They can also be applied to encapsulate asbestos, with excellent results in terms of effectiveness and duration over time. They are resistant to UV rays and are available in the various colours including the FUTURA Aluminium and Copper finishes.

FUTURA MACHINES

FUTURA FHI 3500 Ratio 1:1

Hydraulically driven machine equipped with FUTURA FT3 spray gun, 25 m heated hoses, transfer pumps, mixer and pail/drum heaters. The machine is ideal for application by spray, pouring or injection. Perfect for polyureas and for compact or expanded elastomeric polyurethanes. Can be used with heated hoses up to 100 m long.

FUTURA FHI 4000 Variable ratio

Hydraulically driven machine equipped with FUTURA FT3 spray gun, 25 m heated hoses, transfer pumps, mixer and pail/drum heaters. The machine has parallel volumetric pumps with adjustable Iso-Poly ratio. Perfect for polyureas, compact or expanded polyurethanes at different ratios for application by spray, pouring or injection. Can be used with heated hoses up to 100 m long.



CERTIFICATIONS

FUTURA's products have been certified by ISTITUTO GIORDANO di Bellaria – Igea Marina (RN) – Italy , according to UNI 10686:1998 dated 31/03/1998 - Verification of asbestos-fiber encapsulation properties.

TYPE "A" class exposed exterior (Art.2 D.M. 20/08/1999)

- FUT 204 – Test Report No. 295185 del 07.06.2012
- VFI Alluminio – Test Report No. 295186 del 07.06.2012

TYPE "B" class exposed interior (Art.2 D.M. 20/08/1999)

- FUT 204 - Test Report No. 294245 del 24.04.2012
- VFI Alluminio – Test Report No. 294246 del 24.04.2012

TYPE "C" class for containment (Art.2 D.M. 20/08/1999)

- FUT 204 – Test Report No. 294490 del 24.04.2012
- VFI Alluminio – Test Report No. 294491 del 24.04.2012