



**Innovative single-ply
waterproofing technology**



POLISYSTEM® UK LTD

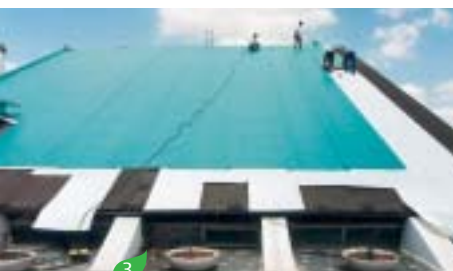
over 10 years experience



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FORTUNE waterproofing membranes create a high quality, high performance membrane roofing system, in which plastic polyolefin materials provide the support structure of the membranes. The results obtained are excellent in terms of quality of performance and durability, also for the safety of installers and end users and last but by no means least, they are aesthetically pleasing.

POLISYSTEM S.p.A. has produced FORTUNE membranes for over ten years, using a technology that has been developed over many years working in the field of polymer science.

FORTUNE products are the final synthesis of years of experience developed in the world of plastic materials, specifically with polyolefins for use in the waterproofing sector.

The polyolefins are derived from the polymerisation of unsaturated olefin hydrocarbons obtained from the refining of petroleum products. Polypropylene in its crystalline and amorphous form, which Polisystem modify using a patented technology with copolymers and

elastomers belonging to this group of products. For several decades small quantities of polypropylene have been used in bituminous membranes to give a continuous structure. FORTUNE membranes are based on polyolefins; these provide all of the specific characteristics, which give the products resistance to atmospheric agents, durability, and high mechanical performances at low temperatures (-60°C) and at high temperatures (+120°C).

FORTUNE's excellent dimensional stability is guaranteed by its reinforcement of inorganic origin. FORTUNE GS is available with glass scrim reinforcement for mechanically-fixed applications. Fully adhered solutions can be solved by FORTUNE TNT; a membrane combined with a polypropylene or polyester TNT adhered to the underside of the membrane. Until now, such results have not been possible; some membranes (for example those based on styrenic rubber) can provide high performance at low temperature, but offer poor resistance at high temperatures, while other materials, which are considered ideal for their resistance to high temperatures, are inflexible at low

1 Consorzio di Bonifica Centro
Chieti (PE) - Italy
12/04 - 45.000 m²

2 Residenza condominiale area Cecchini
Reggio Emilia - Italy
12/97 - 2.200 m²

3 Sporting Club
Lecce - Italy
05/99 - 1.200 m²

4 Centro universitario U.N.I.C.A.L.
Rende (CS) - Italy
03/03 - 1.000 m²



Green Oil S.p.A.
Verona - Italy
07/00 - 10.000 m²



temperatures.

The history of materials for waterproofing can be traced back at least 3000 years; bitumen was originally used 500 years BC. It was mined in its natural state and mixed with sands for use. At the beginning of the century in Europe, the waterproofing Industry used "stratified" technologies, where both organic and inorganic materials were alternated with hot bitumen spread between them on site.

Over the last thirty years, coverings with prefabricated sheets have been developed, using tar from coal distillation and later, bitumen from oil refineries. From 1950 onwards, different kinds of synthetic materials such as SBS, PVC, EPDM, etc. were used for the manufacturing of waterproofing membranes. Despite these developments, the Italian market did not welcome these solutions, due to its particularly sunny climate. It is generally agreed that in the last two decades the building industry has improved considerably, introducing new technology, which was the synthesis of industrial progress in various other fields. The same could not be said for the waterproofing technology and industries. A radical new turn in the waterproofing industry has been possible with the use of polyolefin products, which were already well known in this industry, but only as reinforcing additives to bituminous products and not as a fundamental element of the structure of the waterproofing membranes. The reliability of these new products based on plastic materials is due to the fact that their performance has been tested over decades in many other industrial activities, such as packaging, fibres, also the motor industry, which has really opened a new chapter of application development.



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5 Bacino idrico irriguo. Cantina Bisol
Treviso - Italy
09/00 - 10.000 m²

6 Diga idraulica di mantenimento - Ca Vergjumine
Modena - Italy
12/04 - 6.000 m²

7 Dickens Heath
Client: Redrow Homes - UK
6.000 m²

8 Canale collettore S.ta Gilla di Cagliari
Cagliari - Italy
12/03 - 45.000 m²

9 Allevamento ittico "Mulas".
Nuoro - Italy
01/03 - 10.000 m²



Stockley facade



advantages



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POLISYSTEM is now able to offer the market its new FORTUNE TPO membranes, which are the result of years of research and experience, confident that its customers will appreciate a new waterproofing technological innovation with high performance.

FORTUNE: THE IMPERMEABLE SYNTHETIC MEMBRANE MANUFACTURED BY POLISYSTEM OFFERS THE FOLLOWING ADVANTAGES:

1. AGEING RESISTANCE

Results of artificial ageing tests provide evidence that the values of FORTUNE products are better than the values achieved by other impermeable membranes present in the market. For example, FORTUNE membrane, subjected to the severe thermal stress, (UNI 8202 p 26) after 180 days at 70°C presented a deterioration of only 10 °C of the flexibility test. These results are confirmed by the excellent performance of the FORTUNE membranes installed so far.

FORTUNE membranes do not require any kind of protection and can be directly exposed to the atmosphere.

2. AN ENVIRONMENTALLY FRIENDLY SOLUTION

The impact on the environment during production, installation and working life is exceptional when compared with other membranes present in the market.

3. RECYCLABILITY

The materials used in the production of FORTUNE membranes, including packaging, such as tapes, labels, etc. are 05 category and are therefore recyclable.

4. THERMAL STABILITY

Due to the nature of the plastic material used and of the glass scrim, FORTUNE products have a high thermal stability. This property guarantees the possibility of working in extreme conditions e.g. roofs exposed directly to the sun's rays; with FORTUNE applied vertically, on insulating materials.

5. COMPATIBILITY WITH BITUMINOUS PRODUCTS

FORTUNE membranes offer great advantages when an old bituminous membrane cover is to be restored. The FORTUNE sheets can be laid directly with a woven or non-woven polypropylene or polyester between them and the old bituminous covering.

10 Stabilimento Enirisorse S.p.A. Stab. ENI
Cagliari - Italy
09/98 - 12.000 m²

11 Fittodepurazione imp.
Bolzano Vicentino (VI) - Italy
09/98 - 4.000 m²

12 Residence "Verona".
Verona - Italy
02/00 - 6.000 m²

13 Parcheggio interrato P.U.P.
Roma - Italy
01/98 - 5.400 m²



Centro distribuzione LIDL Somalia MI.
Milano - Italy
12/03 - 32.000 m²



6. SAFETY OF PRODUCT

(Control of Substances Hazardous to Health – COSHH)

The materials used for FORTUNE products are well known and tested over time, so future unknown problems will not occur.

7. DIMENSIONAL STABILITY

The glass scrim used in the manufacture of FORTUNE membranes ensures the dimensional stability required for a waterproofing covering. Tests show that the dimensional variation is less than 0.02% when the temperature changes of about 70°C.

8. HIGH COLD FLEXIBILITY LEVELS

The good values achieved by the FORTUNE membranes in the cold flexibility test allow them to be installed in environmental conditions which would be prohibitive for other membranes.

9. ROOT RESISTANCE

The chemical nature and physical structure of FORTUNE membranes enable it to form a real mechanical barrier against “root perforation”. A very severe test (UNI 8202 p 24) showed that in the presence of lupin roots (among the strongest roots in nature) and in conditions, which were favourable to the growth of the plant, the FORTUNE membrane withstood root penetration.

10. IMPERMEABILITY TO WATER VAPOUR

The technology used in the production of FORTUNE membranes ensures uniformity and continuity to the surface; this gives the product great resistance to vapour.

Tests have also shown that even the welds made with an overlap of 6 cm are highly resistant to steam (minimum value 200.000 μ UNI 8202 p 23). Therefore FORTUNE membranes can be considered as a vapour barrier.



14 Stabilimento manifatturiero.
Rovigo - Italy
09/04 - 1.000 m²

15 Golf Club “Lecco”.
Lecco - Italy
07/02 - 2.000 m²

16 Sa.te.co S.p.A.
Parma - Italy
01/98 - 10.000 m²

17 E.T.I. Ente Tabacchi Italiano. Cop. Mazzitelli
Bari - Italy
02/98 - 15.000 m²



Cimitero “Laurentino”.
Roma - Italy
03/98 - 30.000 m²



advantages



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18 Parcheggio interrato e mercato rionale. P.U.P.
Roma - Italy
01/98 - 6.000 m²

19 Eastbury School
Hulse August, Barking - Essex - U.K.
05/99 - 3.500 m²

20 Stockley Academy of Science and Technology.
Middlesex - U.K.
03/04 - 6.000 m²

21 Tunneli tecnici Residence
Trento - Italy
04/04 - 25.000 m²



Sea Farm.
Taranto - Italy
10/00 - 15.000 m²

11. CHEMICALS AND BIOLOGICAL RESISTANCE

The nature of the materials used and the manufacturing technology, gives FORTUNE membranes great resistance to bacteria aggression that can be generated by stagnant water e.g. tanks for the settlement of sewage, water oxidation basins etc.

12. ROT PROOF

The materials used ensure that FORTUNE waterproofing membranes are not subject to rotting.

13. STRENGTH

The high strength of the polymers and the glass scrim used in FORTUNE membranes give them an excellent performance lengthways and transversely. These characteristics also make FORTUNE membranes suitable for mechanically fixed covers.

14. STRENGTH OF SEALED HOT AIR WELDED LAPS

The nature of polymers used for FORTUNE membranes and the experience gained on site, demonstrates the versatility and ease of welding. This enables quick laying and complete resistance to water ingress over a design life in excess of 40 years.

15. AESTHETIC ASPECT

Until recently, the idea of combining practicability, pliability, weld ability, aesthetic aspect, etc. in a single waterproofing membrane would not have been possible. Materials available previously in the market only found partial solutions to these problems. Over the last few years, the building industries have laid great importance on aesthetics; the surface colouring of the FORTUNE range of membranes is lasting and is virtually maintenance free, providing harmonious, aesthetically pleasing results with high performance.



16. RESISTANCE TO HAILSTONES

FORTUNE products are particularly resistant to hailstones; the special mechanical properties associated with the elasticity of the materials used in the production of FORTUNE membranes guarantee a solution to this problem.



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17. PLASTIC AND ELASTIC PROPERTIES

Raw materials used in the production of FORTUNE membranes guarantee ductility and perfect adjustment to dimensional variations for any situation.



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18. CLEAN INSTALLATION

All the operations required for the installation of the FORTUNE products can be done with total cleanliness for the installers, equipment used and the surrounding areas.



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22 L.I.D.L. Centro direzionale
Verona - Italy
01/05 - 6.000 m²

23 Centro distribuzione L.I.D.L.
Massa Lombarda (BO) - Italy
09/03 - 32.000 m²

24 New Museum of Modern Art
Istanbul - Turkey
03/04 - 6.000 m²

25 St. Mary's Church of England School
Leicester - U.K.
04/04 - 6.000 m²

26 Centro uffici Simens.
Istanbul - Turkey
04/04 - 8.000 m²

27 Jo Richardson Community School
Gale Street, Dagenham - Essex - U.K.
04/04 - 10.500 m²



Bacino idrico acque potabili
Guspini (NU) Italy
04/00 - 25.000 m²



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