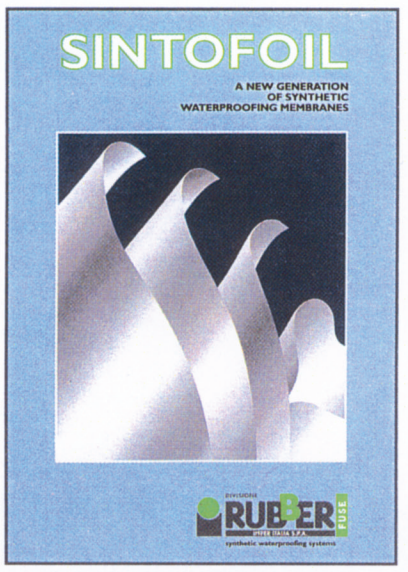
DIVISIONE RUBBERFUSE
IMPER ITALIA S.P.A.
sistemi impermeabilizzanti sintetici

rubberfuse news

3 - November 1998

Editorial

After focusing on the development of a complete product line, based on Sintofoil membranes and related accessories, Imper Italia's Rubberfuse Division is now working on becoming the choice partner for advanced, envronment-friendly waterproofing solutions. The new Sintofoil brochure reflects that target as it describes the benefits of roofing and waterproofing systems using Sintofoil membrane.



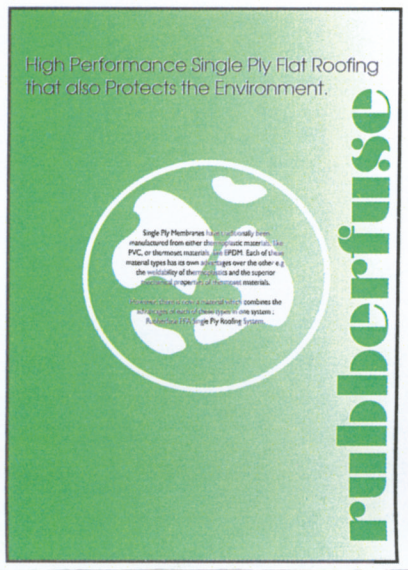
As you will notice from the articles, the Rubberfuse systems keep developing and gaining recognition: to date, more than 200 projects (over 1 million m2) have been installed in 18 countries. All of them prove to be valid references which will support our further growth. And new partners keep joigning the team of Sintofoil pioneers, a clear sign of confidence in the future of our FPA based systems.

Would you have any question or comment about this third issue of our newsletter, please do not hesitate to contact us. Your cooperation is always highly appreciated.

M. Aughuet

IPS publish a "green leaflet"

"Single-ply membranes have traditionally been manufactured from either thermoplastic materials, like PVC, or thermoset materials, like EPDM. Each of these material types has its own advantages over the other e.g. the weldability of thermoplastics and the superior mechanical properties of thermoset materials. However, there is now a material which combines the advantages of each of these types in one system: Rubberfuse FPA (Flexible Polypropylene Alloy) Single Ply Roofing System."

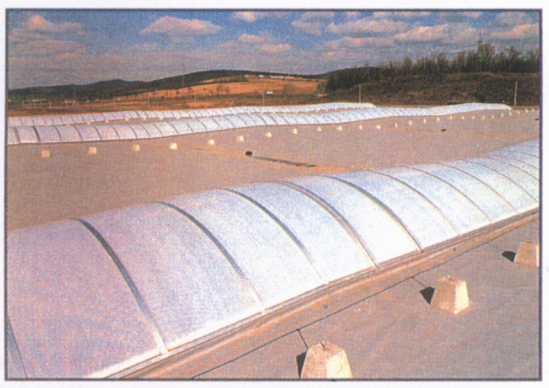


This is the introduction wording of the green leaflet as recently published by Integrated Polymer Systems, Rubberfuse exclusive distributor in the United Kingdom. The 4-page document provides details on the products and systems offered by the new division of Imper Italia, with special emphasis on the environmental properties of the Sintofoil FPA membrane, the main component of the Rubberfuse systems. It has been issued after the successfull completion of an adhered Rubberfuse roof on the reception building of Greenpeace's Earth Center located in Doncaster (UK). Would you be interested in receiving copies of this green leaflet, just let us know!

Systems adequation: a Hungarian demonstration

The Sintofoil membranes can be installed using various systems: loose-laid/ballasted, mechanically fixed or adhered. As each system has its own specific advantages, defining the most adequate system is essential to obtain the best performance at the most competitive cost. Good system adequation has been demonstrated by Prokorr on the following jobs which were recently completed:

Reroofing represents a significant part of the market, especially in Hungary, where lack of maintenance results in many roofs requiring complete reroofing. For the Szily Kalman School and Training Institute, the existing bituminous 2.200m2 complex was covered with Sintofoil FB grey, fully adhered with hot bitumen. The solution met all requirements of the owner, the Budapest Mayor Office: the grey membrane offers an aesthetic solution, the installation was quick and the technopolymeric nature of Sintofoil, while being compatible with bitumen, grants long-term performance. All this at a reasonable cost, as no tear-off was necessary.



Fast track project usually implies quick installation. This is why a mechanically attached single-ply system was selected for the new 5.200m2 OBI Shopping Center. As the structure is a light steeldeck, the membrane will have to cope with permanent substrate movements. The long-term performance as offered by Sintofoil is the appropriate answer: the FPA membrane is inert, ie will remain flexible throughout the years. As aesthetics were also a concern, the reinforced grey membrane was selected.

Environment is a growing concern. This explains the success of "green roofs". Such system provides a pleasant, colourfull touch to the 400m2 terrace of the MTA-STZAKI Headquarters. Sintofoil resists to puncture and root penetration. The ST type membrane was loose-laid, to provide optimal flexibility for the system.

Mappano Training Center - now a routine

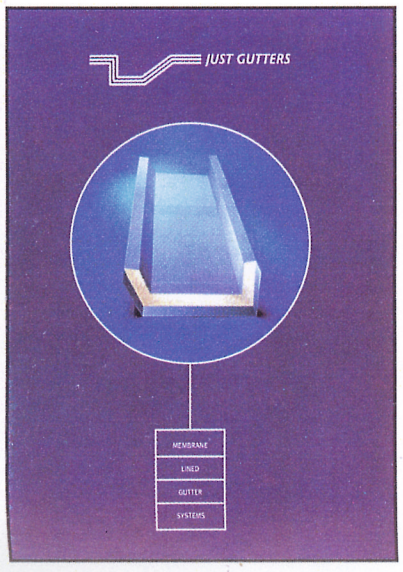
Obtaining total waterproofing performance does not depend only upon the product's features. Quality workmanship is the other key to successfull completion. In order to maintain the highest standards of installation, the Rubberfuse systems are only installed by fully trained, approved and certified installers. Technical seminars are organised on a regular basis at the Rubberfuse Division's Training Center, located in Mappano. International sessions have so far been attended by technical managers and field representatives originating from countries where Rubberfuse is actively promoted, ie Belgium, Czech Republic, France, Germany, Greece, Hungary, Italy, Slovak Republic, Spain, Turkey and United Kingdom. The next session will take place on November 26 & 27. The attendance list includes representatives of partners coming from Austria, Estonia, Kuwait, Norway, Portugal, Singapore, Switzerland and the Netherlands.

Certification program

As part of the European certification program, the Sintofoil membranes and Rubberfuse systems have been tested to show compliance with UEAtc Directives and other standards for physical properties, seam strength, wind and fire resistance. Approval and/or Testing Certification has been obtained from the following Authorities:

British Board of Agrément	UK	Roof waterproofing systems
Inchcape Testing Services	UK	Potable water contact
Bureau Veritas	France	Roof waterproofing systems
EMI	Hungary	Roofing and waterproofing systems
TÜM - DIN norms	Germany	Sintofoil membrane
DVGW	Germany	Potable water contact
CSTC	Belgium	Wind uplift - mech. attached systems
CSTC	Belgium	Wind uplift - adhered system

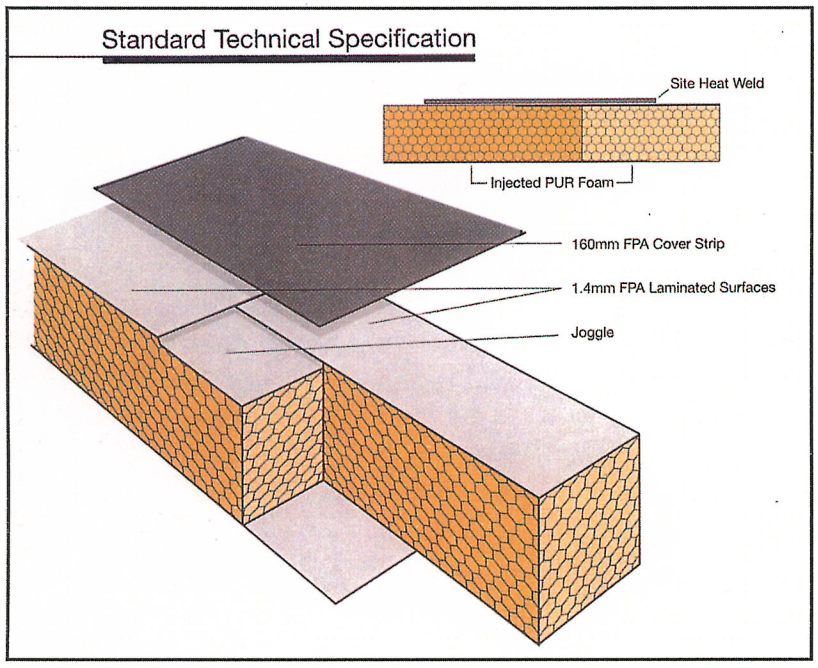
Other programs are currently underway, reflecting Imper Italia's marketing strategy to meet local requirements in countries where Rubberfuse Division is active.



Just Gutters - The company name tells it all

In the non-residential sector, "dry deck" pitch roofs are quite frequently used, as these systems allow to quickly cover large surfaces at a reduced cost. Experience however has demonstrated that gutters are the weak point for such systems and to remedy failed internal gutters often prove to be a problem.

The gutter laminated system developed by Just Gutters (Cheltenham - UK), using Sintofoil laminated sheet metal, is an advanced method which offers essential advantages for gutters waterproofing. The FPA lined gutter provides a surface which is not affected by ponding water, dirt or air pollutants. All joints are executed by on-site welding of Sintofoil strips resulting in a continuous lined surface at the weather side of the gutter.



Just Gutters produces a wide range of products to meet exacting standards with fast delivery service and after sales service to match. The line includes both foam-injected composite and single skin profiles available in various sizes and shapes.

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Rubberfuse goes East

When Imper Italia made the decision to enter the synthetic waterproofing market, some of their partners were prompt to express interest toward the Rubberfuse product line, as it meets the current market trends: improved quality and environment-friendly properties offered at a competitive price. Prokorr in Hungary started promoting Rubberfuse last year. To date, their applicators used Sintofoil membranes for over 15 projects.

In the Czech Republic, I-FBH recently entered the single-ply market and already won 2 jobs. Furthermore, I-FBH took the opportunity of Prague's FOR-ARCH exhibition to formally introduce Sintofoil there. Their participation resulted in an award confirming the interest of the professionals attending the show. (Photo)

Poland is also part of Rubberfuse's promising start in central Europe, as Acieroïd just completed a 22.000m² roof for Roca, the leading sanitaryware company, in Gliwice (Silesia).

DIN program

A prerequisite to the development of Rubberfuse operations in Germany, the Sintofoil membrane has been subject to a complete testing program carried out at the TÜM laboratory (Prüfamt für bituminöse baustoffe und kunstoffe der Technischen Universität München). The results demonstrate that Sintofoil ST membrane meets/exceeds the requirements of DIN 16 726. The main results are as follows:

Test	Unit	Result
Weight per unit area	g/m²	1.308
Thickness	mm	1.24
Tensile strength L/T	N/mm²	14 / 12 *
Elongation at break L/T	%	931 / 983
Tear resistance	N/mm²	9 *
Welded seam		
Shear rupture		outside seam area
Peel resistance L/T	N/mm	6.8 / 5.8
Seam factor		0.6
Ext. tear resistance L/T	N	147 / 179
Water pressure	2 bar / 24 hours	watertight
Puncture resistance	300mm - 1 bar/ 1min	pass
Mass change after temp. ageing L/T	%	0.5 / - 0.1
Behaviour after temp. ageing		no wrinkle
Low temp. flexibility	°C	- 20°C - no crack
Water vapour diffusion		1.014 E + 05
Root resistance		no penetration
Resitance to bitumen		
Original	N/mm²	169
Aged	N/mm²	158
Aged + bitumen	N/mm²	103
Fire classification (FR type)	DIN 4102 - 7	B 2

* Tests carried out on 10mm specimens

Singapore, here we come!

Nowadays, talking about the Far East often implies talking about issues. Well, here are some good news, for a change: Uniroof Int'l have -successfully- introduced Rubberfuse in Singapore, where 3 projects, including a roof for the British Commission, have been recently completed.