

Armaflex® Ultima



„There is no substitute for performance!“

With its new-generation product, Armaflex Ultima, Armacell has set a new safety standard in technical insulation. Based on the patented Armaprene technology, Armaflex Ultima is the first flexible technical insulation material in the world with fire class B/B_L-s1, d0. In comparison to a standard product, the flame-resistant insulation material exhibits 10 times less smoke development and so provides unsurpassed safety in a fire.



See the Armaflex Ultima product video on YouTube



THE FLEXIBLE TECHNICAL INSULATION MATERIAL WITH EXTREMELY LOW SMOKE DENSITY

Minimal smoke density is crucial for people's safety in a fire

In a fire it is not usually the flames that kill, but the smoke. 95 % of fire fatalities occur due to smoke inhalation. So low smoke density can be a matter of life and death for those trapped. When a fire breaks out people usually only have a few minutes to escape, because just three breaths of highly toxic fire smoke can be lethal. The European fire classification takes this fact into account and when assessing the fire behaviour of building products not only tests

the flammability, but also the smoke density and the production of burning droplets.

With the innovative, patented Armaprene technology Armacell has been able to resolve the conflict of objectives between high flame resistance and minimal smoke development. Armaflex Ultima is the only elastomeric product in the market to achieve the fire class B/B_L-s1,d0. The flame-resistant insulation material develops significantly less smoke than a standard product.

B/B_L-s1,d0



HIGH FLAMMABILITY
LOW SMOKE DEVELOPMENT

E s1 d0



LOW FLAMMABILITY
HIGH SMOKE DEVELOPMENT

B s3 d0

Armaflex® Ultima



LOW FLAMMABILITY
LOW SMOKE DEVELOPMENT

B s1 d0



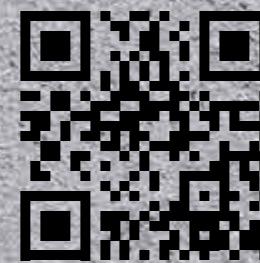
THE FUTURE BELONGS TO SUSTAINABLE CONSTRUCTION

Armaflex Ultima is not only the safest elastomeric product on the market with regard to preventive fire protection, it also offers the highest safety in ecological and health terms. Today Armacell is the only manufacturer of flexible technical insulation materials to publish environmental product declarations based on an independent life cycle assessment (LCA). Environmental product declarations (EPDs) are becoming more and more important in the construction industry: they provide a transparent, independent and reproducible analysis of the environmental impacts of construction products and give detailed information with sound data and figures. As a 'sustainability passport' EPDs form the basis for designing green buil-

dings in accordance with certification schemes such as LEED, BREEAM, HQE or DGNB. So the insulation manufacturer creates a high degree of transparency and provides architects, specifiers and those inviting tenders with reliable information for designing sustainable building projects. At the same time, the EPDs spur the company on to continuously improve the environmental friendliness of its products. For example, Armaflex Ultima achieves the highest fire classifications without the use of brominated flame retardants. And the insulation material is also free of PVC. Armaflex Ultima fulfills the strict requirements of the Swedish BASTA and is listed by Byggvarubedömnningen (BVB) and the Swiss Minergie-Eco label.



You can download the Armaflex Ultima EPD and fact sheets for BREEAM, LEED, DGNB and HQE at www.armacell.com/epd



SOLVENT-FREE ACCESSORIES FOR A SUSTAINABLE INSULATION SYSTEM

A special range of adhesives has been developed for installing Armaflex Ultima. Armacell not only offers the classic Armaflex Ultima 700 adhesive for a wide temperature range and Armaflex Ultima RS850, a gel-like, high-performance adhesive for clean, non-drip application, but is also the first manufacturer of elastomeric insulation materials to provide a solvent-free product. Armaflex Ultima SF990 meets the higher require-

ments of green building sche-

mes regarding environmental and health aspects of the building products used. The adhesive has recently been recognized by the Swiss Minergie-Eco assessment system as being "very well-suited" (1st priority in accordance with ECO-BKP). A completely new addition to the range of accessories is a solvent-free cleaner: the Armaflex SF cleaner can be used to clean soiled surfaces of technical installations and also the surface of insulation materials. This is important to ensure perfect adhesion. The cleaner is supplied in a practical spray bottle so that it can be applied sparingly and precisely.



SYSTEM SOLUTION

B/B_L-s1,d0

-
- Tubes 32 mm NEW
 - Tubes selfadhesive and endless
 - Open tubes
 - Sheets 32 mm NEW
 - Sheets pre-covered NEW
 - Sheets selfadhesive and endless
 - Tape
-
-
-
-
-
-
-

Armaflex Ultima makes a significant contribution to the fire protection level of buildings. Now the first flexible technical insulation material with extremely low smoke density is also available as a complete B/B_L-s1, d0 range. Tubes and sheets in an insulation thickness of 32 mm and a pre-covered B-s1,d0 insulation sheet have been added to the range. For insulating pipes with large outer diameters (> 89 mm < 300 mm) Armacell provides "open tubes" – non-covered, slit tubes which also achieve fire class B_L-s1, d0. Apart from standard and self-adhesive tubes and sheets, there is also an Ultima version of the tried-and-tested Armafix pipe support. The system solution for hanging pipes in cold applications is now manufactured with a load-bearing segment made of recycled PET.

EXPIERIENCE THE DIFFERENCE!

Armaflex Ultima is much more than just the best product in the market. It is backed up by a strong network. When it comes to serving customers, Armacell relies on both personal contacts and digital services. Whether you are the end customer, specifier, wholesaler or installer – all over the world sales representatives, technical advisors and application specialists are there to support you. Our employees create a basis for mutual trust. In today's busy

working environment it is more important than ever that information is readily available anytime and anywhere. You will find it on our new website, in our social media channels and practical tools such as the ArmWin app. For us, working in partnership with customers means sharing knowledge, learning from each other and supporting each other.

Experience the difference!

"We specified Armaflex Ultima for insulating technical installations in the new research and teaching centre at the Department of Biology at the University of Oulu. It is the only insulation material which provides the cooling water pipes and air ducts with reliable protection against condensation and energy losses and at the same time fulfils the required fire class B₁-s1, d0 of the Finnish building code."

Pasi Makkonen, Project Manager Building Services Sweco Talotekniikka Oy (Oulu)

"We used Armaflex Ultima for the first time on cold installations in Yara's German distribution centre. In a fire, Armaflex Ultima develops 10 times less smoke than traditional flexible insulation materials, making it the safest insulation product for cold applications. The new material is slightly darker than the first Ultima generation. The foam is very flexible, but it is firmer than other rubber insulation materials and keeps its shape very well. The product can be cut and glued very easily and neatly."

**Jürgen Saalfeld, Insulation contractor
Schmengler Dämmtechnik GmbH**



ArmWin - technical calculation program

This powerful tool can be used to carry out all the common technical calculations in refrigeration/air-conditioning and heating/plumbing applications – even on the building site, thanks to the new app.



Armacell training on correct application

Every year several thousand professional installers benefit from Armacell's application training. Whether in the training centre, on the insulation wholesalers' premises or on the building site – Armacell supports you in your daily work.



PROVEN PERFORMANCE

All over the world major engineering offices have specified Armaflex insulation materials for their projects. The highly flexible products have proven themselves a million times.

Find out about just a few of the successful projects realized with Armaflex at

www.armacell.eu



Armacell GmbH

Robert-Bosch-Straße 10 • 48153 Münster • Germany
Fon: +49 (0) 251 76030 • info@armacell.com

www.armacell.eu

 **armacell**[®]

201606 | MASTER

ArmaflexUltima | Brochure