

Delta Membranes

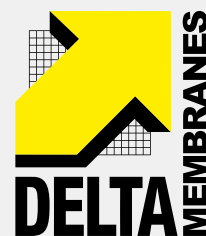
# MS 500 Fire Retardant

Our robust Type C, Protection System engineered to weather the toughest conditions, combining the benefits of a comprehensive waterproofing system with Euroclass fire retardant protection.



**Discover peace of mind today**

Call 01992 523 523 or email [info@deltamembranes.com](mailto:info@deltamembranes.com) for details

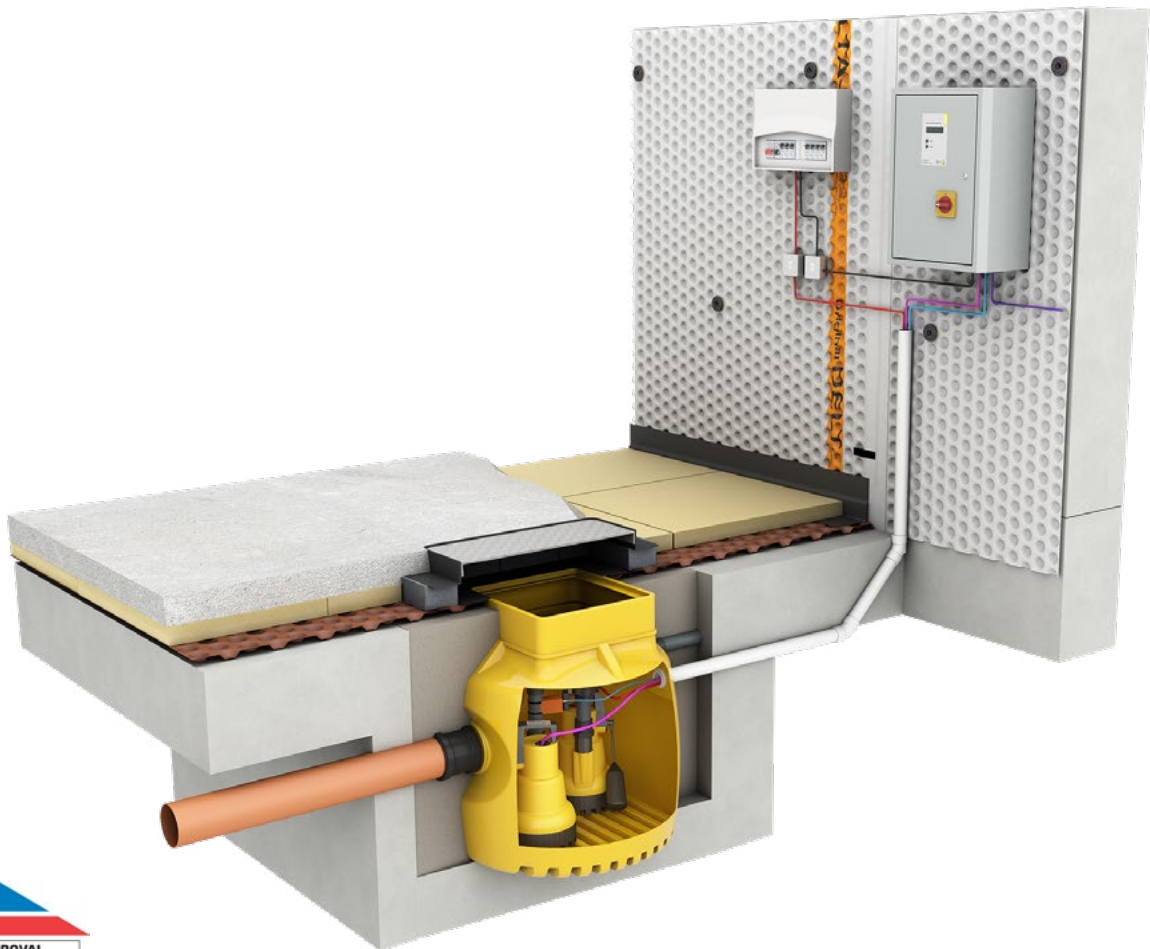


## Delta MS 500 Fire Retardant

Why settle for less when you can choose the Delta MS 500 Fire Retardant Waterproofing System? This robust Type C, Protection System is engineered to weather the toughest conditions. Invest in durability, invest in peace of mind.

Delta MS 500 Fire Retardant is more than just a product: it's a structured defence against unexpected disasters. Trust in our commitment to your safety and let's make your environment disaster-proof.

Fire retardants play a critical role in enhancing safety measures in homes or buildings. Their primary function is to delay the spread of fire, thereby providing occupants with crucial extra time to evacuate a building and firefighters with additional time to intervene. Moreover, they contribute significantly to preventing property damage, not only from the fire itself, but also from potential water damage arising from automated sprinklers or fire control efforts by local authorities.



## Fire Protection/Euroclass

Delta MS 500 Fire Retardant is a robust Type C, Cavity Drained Protection system, designed to withstand demanding conditions. It holds a Euroclass fire rating of B-S2, d0 (EN 13501-1:2018), an indication of its superior fire resistance.

Delta MS 500 Fire Retardant does not compromise on its strength, durability, functionality, or workability. This makes it an excellent choice for applications where both fire safety and structural integrity are paramount.

## Euroclass Fire Ratings

Reaction to fire, often called the Euroclass system gives building products a classification. The 'Reaction to fire' classes test three properties of the building material: spread of fire, smoke intensity and burning droplets. Most building materials sold on the European market must be assigned a file indicating its fire resistance based on a Euroclass rating system. There are 7 Euroclasses of reaction to fire performance for construction products which extend from A1 to F.

Euroclasses and the target safety level	
Euroclass	Target safety level
A1	No contribution to fire even under fully developed fire conditions
A2	Only negligible contribution to fire even under fully developed fire conditions; no spread of fire from the area of the primary fire in the fire development phase
B	In the fire development phase, no spread of fire from the area of the primary and very limited contribution to the fire
C	Under the conditions of a fire in the development phases, very limited spread of fire and limited energy release and ignitability
D	Under the conditions of a fire in the development phases, limited spread of fire and acceptable energy release and ignitability
E	In the case of a very small fire (match flame) acceptable reaction to fire (ignitability, flame spread)
F	No requirements concerning the reaction to fire
Additional assessment classes for smoke development and burning droplets/particles	
Smoke development	s3 (there are no restrictions regarding smoke development) s2 (the fully released amount of smoke, and the rise in smoke development are restricted) s1 (stricter criteria than for s2 must be fulfilled)
Burning droplets/particles	d2 (there are no restrictions) d1 (burning droplets not longer than the defined time) d0 (dripping fire debris is not permitted)

## Fire Retardants



Fire retardants serve a crucial role in fire safety measures, fire retardant materials possess the unique characteristic to slow down or even halt the spread of fire. This key feature makes them an essential element in fire safety management.

Designed with a specific purpose in mind, Delta MS 500 Fire Retardant Membranes offer notable benefits during a fire incident. Their primary function is to resist ignition, which minimizes the chances of a fire starting. Additionally, these membranes are engineered to limit the spread of flames, thus helping control the extent of fire damage. Another crucial feature is their ability to restrict the number of droplets released during a fire, further increasing safety levels.

These membranes are used in construction to ensure the safety of occupants, offering critical time for evacuation in case of a fire. They play a pivotal role in the fire safety design of buildings, contributing to a safer environment.

## Benefits



8mm studded profile



Euroclass fire rating B-S2, dO (EN 13501.1:2018)



Compressive Strength: >250 kN/m<sup>2</sup>



Suitable for Waterproofing and damp proofing



Resistant to Radon



BBA Approved



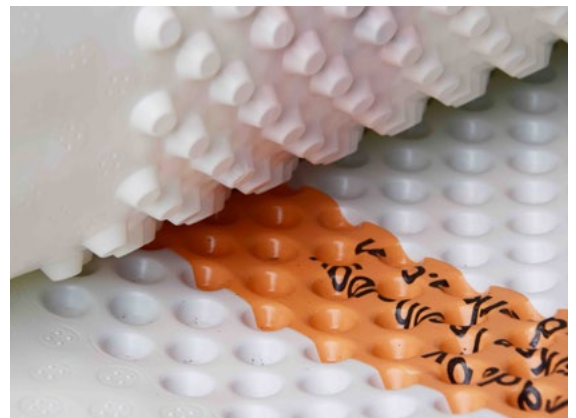


## Waterproofing

Waterproofing refers to the technique of preventing water from penetrating a structure and controlling the flow of water and water vapour within and out of the structure.

Type C waterproofing integrates two key elements for optimal functionality: Cavity Drainage Membranes and Basement Drainage Systems. These components work in unison to ensure efficient water management in structures.

Type C Cavity Drainage Membranes tend to be crafted from High-Density Polyethylene (HDPE); a tough, durable plastic material known for its high strength-to-density ratio. This material offers excellent resistance to impact, moisture, and chemicals, ensuring long-lasting performance and reliability. However, polyethylene possesses flammable characteristics. It can easily catch fire under certain conditions, due to its chemical composition. When exposed to certain conditions, plastic can undergo a transformation where it starts to melt and subsequently produce droplets. This occurrence is crucial to consider when dealing with plastic materials.





## Subterranean Structures

Invest in the future of your below-ground structure with Delta MS 500 Fire Retardant cavity drainage membrane. Its 8mm studded white profile creates a substantial 2.25 litre per square meter void, tailor-made to serve as an integral part of a Type C waterproofing solution compliant with BS 8102:2022.

This isn't just any membrane; it's your first line of defence against the potential damage caused by groundwater ingress.

Ideal for waterproofing basements and isolating damp walls above ground level, its 8mm stud depth also provides a perfect air gap for wall application.

**Trust in our technology to protect your structures today!**







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