



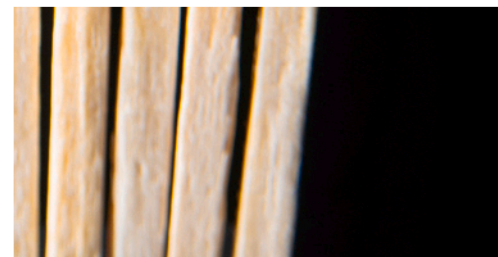
FROM MEDIUM TO LARGE
FIRESTOP PENETRATIONS

ArmaProtect MM20

Firestop mortar for mixed fire seals in
walls and floors

- // Cable trays
- // Busbars
- // Combustible pipes
- // Clima split bundles

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TECHNICAL DATA - ARMAPROTECT MM20

Brief description	ArmaProtect MM20 is a fibre-free dry firestop mortar used to maintain the fire resistance performance of fire penetrations in wall and floors.
Material type	Fibre-free dry mortar.
Additional material information	4.0–5.0 l water + 25 kg dry mortar ≈ 15–18 l ready-to-use wet mortar ≈ 15–18 l volume after hardening.
Product colour range	Grey
Product range	Available as a 25 kg bag of mortar.
Applications	Firestop mortar for mixed fire seals in walls and floors for cables, cable bundles, cable trays, combustible pipes and clima split applications.
Installation	For professional use only. Refer to third party published listings, national approvals / assessments and Armacell's product literature for specific application details as well as before handling this product.

Approvals and compliance

Specification compliance	<ul style="list-style-type: none"> UL acc. UL 1479 (ASTM E814)
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Property	Value / Assessment	Standard / Test method
Operating temperature		
Operating temperature	5 °C to 200 °C (41 °F to 392 °F)	
Processing Temperature		
Processing temperature	5 °C to 25 °C (41 °F to 77 °F)	
Fire Performance and Approvals		
Reaction to fire	Class A1	EN 13501-1
Physical attributes		
Density	1700 kg/m ³ (cured mortar)	EN 998-2
Mechanical properties		
Pressure resistance	M 20	EN 998-2
Health and environment		
Health aspects	Please refer to the safety data sheet available on our website.	
Emission of dangerous substances	No dangerous substances.	ETAG 026-02
Other technical features		
Cure time	Fully cured after approximately 28 days.	
Density of uncured material	2000 kg/m ³ (density of wet mortar).	EN 998-2
Shelf life	Can be kept for at least 12 months unopened if stored properly.	
Storage	Store in a cool and dry place with an ambient temperature of 5 °C to 25 °C and protect from frost.	

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

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