



Versalis Extir® AM AE

EPS

Technical Data Sheet
Expandable Polystyrene

Flame retardant

Versalis Extir® AM type 2000 AE, 3000 AE, 5000 AE, is a white expandable polystyrene with flame retardant properties. The beads of Versalis Extir® AM are spherical in shape and contain pentane as a blowing agent. The product is not suitable for food contact.

Technical Information

	Unit	AM 2000 AE	AM 3000 AE	AM 5000 AE	AM 7000 AE
Bulk density	kg/m ³	590 - 630			
Beads size	mm	0,4 – 0,75	0,6 – 1,0	0,9 – 1,8	1,6 – 2,4
Typical pentane content	%	< 6,5			
Minimum apparent density					
• After one expansion	kg/m ³	18	16	15	15
• After two expansions	kg/m ³	Not appl.	Not appl.	9	9
Usual density range	kg/m ³	18 - 30	16 – 30	10 – 25	10 – 15

For more information, please refer to the technical bulletin "EXTIR® for building"

Applications

Versalis Extir® AM 2000 AE

It is suitable to produce products with thin walls up to 5 mm.

It is mainly used in the construction industry.

Typical applications are:

- Industrial Packaging
- Decorative panels for ceilings and underlays
- Lightweight mortars for building insulation

Versalis Extir® AM 3000 AE

It is suitable to produce panels and moulded parts with thick walls thicker than 8 mm. Mainly used in the construction industry and industrial packaging.

Typical applications are:

- Industrial protective packaging
- Medium/high density panels for thermal insulation
- Construction components, hot-wire cut or stamped





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Versalis Extir® AM 5000 AE	Suitable to produce medium low density insulation blocks for thermal insulation. It is mainly used in the construction industry. Typical applications are: • Blocks and thermal insulation panels • Sound insulation blocks • Road blocks for basement
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Versalis Extir® AM 7000 AE	Suitable for the production of low-density blocks for thermal insulation. It is mainly used in the construction industry. Typical applications are: • Lightweight blocks for thermal insulation sheets, especially cavity wall insulation • Blocks for acoustic insulation • Road foundations and civil construction
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Processing

I Versalis Extir® AM AE range products can be processed in three steps.

Pre-expansion	Versalis Extir® AM AE can be pre-expanded to the densities indicated above with common continuous or discontinuous pre-expanders.
Aging	The aging time of the expanded beads is between 6 and 72 hours. It may vary according to the desired density and climate conditions.
Molding	Can be molded in any type of EPS press or block in a wide range of vaporization conditions.

Certifications

✓ Euroclass E, ✓ LNE, ✓ B1 nach DIN4102

Extir® AM AE is officially certified Euroclass E EN 13501-1, compliant with EN 13163 Annex E. For the products bearing French certification (LNE) or german certification (B1 nach DIN4102) certificates are provided on request. The flame-retardant properties of the finished product are effective only after blowing agent removal and after a proper aging time.





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Storage



Keep the product in a dry well-ventilated store between 15 and 20°C.



For product packaged in octabins and stored correctly, the guaranteed shelf-life is one month from delivery.



Versalis Extir® AM AE molded panels and products should not be exposed to direct sunlight or wrapped in plastic film. We strongly recommend using opaque or white packaging.

