



# 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 <sup>3</sup>	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 <sup>3</sup>	18	16	15	15
• After two expansions	kg/m <sup>3</sup>	Not appl.	Not appl.	9	9
Usual density range	kg/m <sup>3</sup>	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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<b>Versalis Extir® AM 5000 AE</b>	Suitable to produce medium low density insulation blocks for thermal insulation. It is mainly used in the construction industry. Typical applications are: <ul style="list-style-type: none"><li>• Blocks and thermal insulation panels</li><li>• Sound insulation blocks</li><li>• Road blocks for basement</li></ul>
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<b>Versalis Extir® AM 7000 AE</b>	Suitable for the production of low-density blocks for thermal insulation. It is mainly used in the construction industry. Typical applications are: <ul style="list-style-type: none"><li>• Lightweight blocks for thermal insulation sheets, especially cavity wall insulation</li><li>• Blocks for acoustic insulation</li><li>• Road foundations and civil construction</li></ul>
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## Processing

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

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

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## 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.

## Safety

During the processing of Expandable Polystyrene, an explosive atmosphere may be generated due to air / pentane mixtures. For this reason, all possible causes of ignition such as open flames or sparks must be avoided, it is necessary to work in adequately ventilated places and smoking should be forbidden. Adequate electrical grounding of machinery and of pneumatic conveyance lines is recommended. The product is HBCD-free and does not contain any CFCs or HCFCs. For further information relating to storage, packaging and processing precautions, please refer to the Technical Bulletin "Styrenics - Technical data sheets" and to the "Versalis Extir® AM AE Safety Data Sheets".