



# Versalis Extir® Verdi VM AE

EPS

Technical Data Sheet  
Expandable Polystyrene

Versalis Extir® Verdi VM type 2000 AE, 3000 AE and 5000 AE is a white expandable polystyrene gamma with flame retardant properties guaranteed using a polymer-type flame retardant. The beads of Versalis Extir® VM AE are spherical in shape and contain pentane as an expanding agent. Versalis Extir® Verdi VM AE is a very versatile product, suitable for the production of thin-walled shaped products with good thermal conductivity, especially for low density and used for the production of medium high-density blocks and moulded parts with walls greater than 8 mm. The product is not suitable for food contact.

## Technical Information

	Unit	VM 2000 AE	VM 3000 AE	VM 5000 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
Typical pentane content	%	< 6,5		
Minimum apparent density				
• After one expansion	kg/m <sup>3</sup>	18	17	15
• After two expansions	kg/m <sup>3</sup>	Non appl.	Non appl.	9
Usual density range	kg/m <sup>3</sup>	18 - 30	16 – 30	10 – 25

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

## Applications

### Versalis Extir® VM 2000 AE

It is mainly used in the construction industry and industrial packaging.  
Typical applications are:

- Thin-walled industrial packaging (e.g., electro-mob connectivity)
- Underfloor and roof heating panels
- Lightened mortar for building insulation

### Versalis Extir® VM 3000 AE

It is 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 molded

### Versalis Extir® VM 5000 AE

It is mainly used in the construction sector.  
Typical applications are:

- Blocks and thermal insulation panels
- Sound insulation blocks
- Road foundation blocks



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### Processing

Versalis Extir® Verdi VM AE range products can be processed in three steps.

<b>Pre-expansion</b>	Versalis Extir® VM AE can be pre-expanded to the densities indicated above with common continuous or discontinuous 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>	It 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**

Versalis Extir® VM 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.

### 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® VM 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.

