



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 ³	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				
<ul style="list-style-type: none"> After one expansion 	kg/m ³	18	17	15
<ul style="list-style-type: none"> After two expansions 	kg/m ³	Non appl.	Non appl.	9
Usual density range	kg/m ³	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

Versalis Extir® Verdi VM AE

EPS

Technical Data Sheet

Expandable Polystyrene

Processing

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

Pre-expansion	Versalis Extir® VM AE can be pre-expanded to the densities indicated above with common continuous or discontinuous 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	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.

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 a 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® VM A AE Safety Data Sheets".

The information and data presented herein are, to our knowledge, truthful and accurate, but no warranty is given, express or implied, nor does it accept any responsibility with respect to the use of such data.

® Registered Trademark