



versalis

TECHNICAL DATA SHEET

Extir®
Expandable polystyrene

DM 3000 AE GEO GREEN

Product description

Extir DM 3000 AE GEO GREEN is an HBCD - free flame retardant expandable polystyrene in the form of green colored spherical beads of medium fine particle size, containing pentane as blowing agent.

Extir does not contain CFC or HCFC.

Extir DM 3000 AE GEO GREEN is used for production of moulded boards or blocks for the insulation of building foundations and is characterised by low water absorption by vapour diffusion (EN 12088) and immersion (EN 12087) for long term period.

Extir DM 3000 AE GEO GREEN exhibits excellent processing characteristics and high mechanical strength.

Technical data

Bulk density	kg/m ³	590 - 630
Particle size	mm	0.6 - 1.0
Minimum apparent density		
• on a continuous pre-expander after one expansion	kg/m ³	not appl
• on a continuous pre-expander after two expansions	kg/m ³	not appl
• on a discontinuous pre-expander	kg/m ³	20
Density range normally used	kg/m ³	20 - 35

Applications

Extir DM 3000 AE GEO GREEN is used in building sector.

Typical applications are:

- insulation of building foundations
- underground wall insulation

For such applications a low water absorption by vapour diffusion is highly

Laboratory trials have demonstrated that with Extir DM 3000 AE GEO GREEN, under controlled processing conditions, it is possible to obtain items with particularly low values of water absorption.



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Processing

Extir DM 3000 AE GEO GREEN can be easily pre-expanded over a wide density range from 20 to 35 kg/m³.

The recommended ageing time before moulding obviously depends on the pre-expanded density and ranges from 6 to 48 hours.

Extir DM 3000 AE GEO GREEN can be moulded on both shape or block moulding machines.

General information

It is recommended to keep the product in a dry well ventilated store between 15-20°C. For product packaged in octabins the guaranteed shelf-life is one month; product in steel drums has a six months guaranteed shelf-life.

During the processing of Expandable Polystyrene any sparks or naked flames must be avoided and smoking should be forbidden. An adequate electrical earthing of machinery and of pneumatic transport lines is recommended.

For further information concerning storage, packaging and processing precautions please refer to the Technical Data Sheet "Extir expandable polystyrene" and to the "Extir Safety Data Sheet".

With reference to "flame retardant" properties, items produced with Extir DM 3000 AE GEO GREEN are certified EUROCLASS E according to EN 13163.

The action of the flame retardant additive is exerted only after the elimination of blowing agent and, therefore, only after Extir AE has been transformed into foamed articles (suitably aged where necessary).

