



Provisional Technical Data Sheet



Versalis Revive® EPS ES3 AE

EPS

Expandable Polystyrene

Versalis Revive® EPS ES3 AE is a new Versalis expandable polystyrene developed for a more sustainable insulation with reduced pentane content. It contains 80% of post-consumer EPS coming from food packaging, household appliance packaging and seedtrays in accordance with UNI 10667/10 and certified Plastica Seconda Vita (PSV).

Main Properties	Units	Typical Values
Bulk density	kg/m ³	500 - 600
Particle size	mm	0,6 – 1,2
Pentane	%p	< 5
Minimum apparent density		
• After one expansion	kg/m ³	21
• After two expansions	kg/m ³	17
Density range normally used	kg/m ³	17 – 30

Key Features

Versalis Revive® EPS ES3 AE is a self-extinguishing product that passes the EuroClass E self-extinguishing test in accordance with the NF EN 11925-2 standard. The certification is ongoing.

The panels and moulded parts produced with this material must be checked and certified by converters according to the "Factory Production Control" reported in UNI EN 13163.

Versalis Revive® EPS ES3 AE has a lower pentane content than standard products to help reducing the emissions.

Versalis Revive® EPS ES3 AE is grey.

Main Applications

Versalis Revive® EPS ES3 AE is used in mix with other self-extinguishing virgin EPS to produce:

- Shape or block moulding panels for ETICS
- Roof and floor insulation panels
- Cavity wall

Processing

Versalis Revive® EPS ES3 AE can be processed with standard technologies using process conditions similar to those of traditional products.

Certifications

Versalis Revive® EPS ES3 AE is certified Plastica Seconda Vita – PSV.

Storage Conditions

It is recommended to keep the product in a dry well-ventilated store between 15-20°C.

For product packed in octabins, the guaranteed shelf-life is one month in the mentioned conditions.

During the processing of Expandable Polystyrene any sparks or open flames must be avoided and smoking should be forbidden. Adequate electrical grounding of machinery and of pneumatic conveyance lines is recommended.

The boards and moulded parts made of Revive® EPS ES3 AE should not be exposed to solar radiation and not packed in transparent film. The use of an opaque or white film is strongly recommended.

