

SUNPOR® A 245 SE

Technical Notice

H-21-TM-245 SE Status: 08

SUNPOR® A 245 SE is expandable polystyrene granulate (EPS) which can be processed into rigid foam boards.

Applications:

SUNPOR® A 245 SE is mainly processed into PS 15-20 blocks used for external thermal insulation composite systems (ETICS).

According to DIN 18164/2 insulating foam boards with a density of 15 kg/m³ are, as EPS-W 15, suitable for thermal insulation applications without special loads, such as

- cavity wall insulation
- interior wall insulation
- interior roof insulation

EPS foam boards with a minimum density of 20 kg/m³ are also used for thermal insulation applications under mechanical loads.

SUNPOR® A 245 SE contains polymeric flame retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

Density range:

14 - 20 kg/m³

Granulate geometry:

SUNPOR® A 245 SE is supplied as a spherical-shaped granulate.

Granulate diameter:

1.0 - 1.85 mm (> 95 % by weight)

Pentane content:

> 6.0% by weight (at the time of packaging)

Water content:

< 0.4% by weight (at the time of packaging)

Packaging and storage:

SUNPOR® A 245 SE is shipped in octabins (height 176 cm) on wooden pallets (114 x 114 cm), containing 1150 kg net of material.

The octabins are not weather- nor water-proof and must therefore not be exposed to outdoor conditions.

In order to obtain the desired properties of SUNPOR® A 245 SE, the raw material should be stored below 20 °C and be processed within one month.

Processing:

Pre-expansion:

With discontinuously operating, state-of-the-art pre-expanders SUNPOR® A 245 SE can be pre-expanded to densities of approx. 14 kg/m³.



Lower densities can be achieved by double pre-expansion.

SUNPOR® A 245 SE has been treated with an antistatic agent to prevent a build up of electrostatic charge during transport.

Intermediate aging:

Intermediate aging should be between 10 and 48 hours.

Higher-density material may easily be processed after a longer time interval without adversely affecting quality.

Moulding:

SUNPOR® A 245 SE can be processed in industry standard blockmoulds.

Shipping:

ADR-marking: substance no. 2211:

Polymeric beads, expandable

Class: 9

Packing group: III ADR

Safety instructions:

Flammable pentane-air mixtures may be generated during storage and processing of SUNPOR® A 245 SE. For this reason adequate ventilation must be ensured (UEG pentane 1.3% by volume).

The blowing agent pentane escapes relatively slowly from EPS foam blocks. Thus, when cutting recently moulded blocks, the formation of a flammable pentane-air mixture has to be anticipated.

In addition, all conceivable sources of ignition must be kept away, and the build up of electric charges has to be prevented.

Please note:

This Technical Notice reflects our current knowledge.

The suitability for concrete applications must be verified by the processor in a technical and legal context. Subject to technical changes.

