

# SUNPOR® A 145 SE

Technical Notice

H-21-TM-145 SE Status: 06

SUNPOR® A 145 SE is an expandable polystyrene granulate (EPS) which can be processed into rigid foam boards.

## **Applications:**

SUNPOR® A 145 SE is mainly processed into impact sound insulation blocks.

Due to their impact absorbing qualities impact sound insulation blocks are placed below the floor to dampen the noise made by steps.

The ratio between manufactured thickness ( $d_L$ ) and thickness under load ( $d_B$ ) is determined by the compression degree and the temperature, as well as by the intermediate storage time between moulding and pressing of the blocks.

SUNPOR® A 145 SE contains a flame retardant and conforms to DIN 4102/B1.

## **Density range:**

8 –14 kg/m<sup>3</sup>

## **Granulate geometry:**

SUNPOR® A 145 SE is supplied as a bead-shaped granulate.

## **Granulate diameter:**

1.85 - 2.5 mm (> 90% by weight)

## **Pentane content:**

> 5.5 % by weight (at the time of packaging)

## **Water content:**

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

## **Packaging and storage:**

SUNPOR® A 145 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- or water-proof and must therefore not be exposed to outdoor conditions.

In order to obtain the desired properties of SUNPOR® A 145 SE, the raw material should be stored below 20 °C and be processed within one month.

## **Processing:**

### **Preexpansion:**

With discontinuously operating, state-of-the-art preexpanders SUNPOR® A 145 SE can be preexpanded to densities of approx. 14 kg/m<sup>3</sup>.

Lower densities can be achieved by double to triple preexpansion.

SUNPOR® A 145 SE has been treated with an antistatic agent to prevent a buildup of electrostatic charge during transport.

### **Intermediate aging:**

Intermediate aging should be between 10 and 24 hours.

### **Moulding:**

SUNPOR® A 145 SE can be processed in industry standard blockmoulds and presses.

### **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 145 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 buildup 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.