Terrapor® 4

Technical Notice
H-21-TM – Terrapor4 Status: 02

Description:

Terrapor®4 is an expandable polystyrene granulate (EPS) which can be processed into perimeter insulation foam boards with reduced water absorption.

Terrapor®4 contains a flame retardant and conforms to DIN 4102/B1.

Density range:

22 - 40 kg/m^3

Granulate geometry:

Terrapor®4 is supplied as a bead-shaped granulate.

Granulate diameter:

0.3 - 0.8 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:

Terrapor®4 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 Terrapor®4 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 Terrapor®4 can be preexpanded to densities of approx. 20 kg/m^3.

The special hydrophobic surface coating absorbs slightly less moisture during the preexpansion process than standard EPS raw material. To prevent a buildup of static charge, the preexpanded beads should thus not be dried too much in the fluidised bed.

Intermediate aging:

Intermediate aging should be between 10 and 48 hours.

Moulding:

Terrapor®4 can be processed in industry-standard blockmoulds and automatic moulding machines.

When Terrapor®4 is moulded into foam boards used for direct water or moisture contact, best possible fusion must be ensured, since the degree of fusion is directly connected with water absorption.

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 Terrapor®4 this reason adequate ventilation must be ensured (UEG pentane 1.3% by volume).
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.