

# terrapor<sup>®</sup> 3

## Technical data sheet | Revision: 07

### Description:

**terrapor<sup>®</sup> 3** is processed into PS 30 blocks, i.e. load-bearing thermal insulation, and into high-density EPS contour mouldings, especially perimeter insulation foam boards with reduced water absorption.

**terrapor<sup>®</sup> 3** contains polymeric flame retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

<b>Density range:</b>	20 - 40 kg/m <sup>3</sup>
<b>Granulate geometry:</b>	bead-shaped granulate
<b>Typical granulate diameter:</b>	0.6 - 1.1 mm (> 95 % by weight)
<b>Pentane content</b> (at the time of packaging):	> 5,7 % by weight
<b>Water content</b> (at the time of packaging):	< 0,4 % by weight

### Colour:

- > white
- > blue
- > green
- > pink
- > anthracite
- > yellow

### Packaging and storage:

**terrapor<sup>®</sup> 3** is shipped in octabins (height max. 192 cm) on wooden pallets (114 x 114 cm) containing 1,150 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<sup>®</sup> 3**, 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 **terrapor<sup>®</sup> 3** can be pre-expanded to

densities of approx. 18 kg/m<sup>3</sup>. **terrapor<sup>®</sup> 3** 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:

**terrapor<sup>®</sup> 3** can be processed in industry-standard block moulds and automatic moulding machines.

The material allows the production of a wide range of moulded parts and, by varying the steaming and filling gap parameters, the degree of fusion and the surface structure can be optimized for specific applications.

Good mould-filling properties are achieved with minimum wall thicknesses of approx. 8 mm.

### Shipping:

<b>ADR-Marking:</b>	Substance no. 2211 Polymeric beads, expandable
<b>Class:</b>	9
<b>Packing Group:</b>	III ADR

### Safety instructions:

Flammable pentane-air mixtures may be generated during storage and processing of **powerpor<sup>®</sup> 3**. For this reason, adequate ventilation must be ensured (LEL 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.