

Extir® LN 2001

Expanded Polystyrene

Versalis S.p.A.

Message:

Extir LN 2001 belongs to a new expandable product family, the Leonardo Series.

Extir LN 2001 is specially coated to be incorporated into bricks, concrete, mortar and plaster, in order to lighten them and to improve their thermal insulation.

Typical applications of Extir LN 2001 are production of:

cellular bricks of low thermal conductivity. The prefoamed beads, blended with a clay mixture before extrusion, are vapourised during the brick baking phase, leaving an internal cellular structure with voids of 1-3 mm diameter. The bricks obtained are up to 20 % lighter and the heat conductivity is about 0.2 W/m²K.

lightened concrete with low thermal conductivity. The prefoamed beads, after coating with a suitable wetting agent, are added during the concrete mixing phase resulting in lightweight mortars with densities down to 200 kg/m³. For use in plaster and for insulated floors, typical mortar densities are 300-400 kg/m³, giving a heat conductivity of approximately 0.1 W/m²K.

| General Information | | |
|---------------------|--|-------------------|
| Features | Expandable | |
| | Thermally Insulating | |
| Uses | Building Materials | |
| | Construction Applications | |
| Physical | Nominal Value | Unit |
| Density | 0.0120 to 0.0200 | g/cm ³ |
| Apparent Density | | |
| -- ¹ | 0.01 | g/cm ³ |
| -- | 0.59 to 0.63 | g/cm ³ |
| -- ² | 0.02 | g/cm ³ |
| Particle Size | 400 to 750 | µm |
| NOTE | | |
| 1. | on a continuous pre-expander after two expansions | |
| 2. | on a continuous pre-expander after one expansion | |

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