

General information

PureRED 500 is unsaturated polyester based intumescent gel coat designed for composites. It minimizes flame spread and reduces heat transfer to the composite substrate.

To prolong storage stability, it is supplied as a non-accelerated version together with a special acceleration solution (PureACC). Once accelerated and catalysed with MEKP, it cures at room temperature, but for optimum fire protection properties post-curing at 60°C for 8 hours is recommended after demoulding.

Key properties

- ✓ excellent fire protection via intumescence
- ✓ self-extinguishing
- ✓ low smoke generation during fire
- ✓ reduced heat release rates
- ✓ low flame spread
- ✓ halogen and asbestos-free
- ✓ limited colours available: RAL 7035 is a standard colour, others on request

General properties (23°C)

Barcol -hardness ¹⁾	40 – 42
Gel time (3% PureACC + 2% MEKP)	60 min
Specific gravity	1,4
Shelf life after acceleration	2 weeks
<small>¹⁾ 24h, 23°C / 8h, 60°C</small>	

Applications

For enhanced fire performance in the marine, building and transport industries. Indoor applications only.

PureRED 500 gel coat is compatible and designed to use only with unsaturated polyester laminating resins. It can be applied by spray, brush, or roller. A typical application is 800-1000 g/m² wet.

Usage

The working temperature should be 18 – 22°C and relative humidity should not exceed 80%. All surfaces must be dry and before application dust, oil or dirt are removed by appropriate means. Mix well before use.

Add 3% PureACC and mix well.

Add 2% MEKP and mix well.

PureACC reacts vigorously with peroxides! Explosion hazard! Do not allow direct contact with MEKP!

Apply directly to prepared mould by appropriate means. If applied by spray, viscosity can be adjusted with styrene 3 – 5%. To get the best fire performance, make sure to apply as even layer as possible.

Storage & Handling

The product contains flammable and volatile solvents. Do not breathe vapor. Keep away from sources of ignition, no smoking. Detailed safety information is contained in a material data safety sheet.

Store in a cool and dry place avoiding direct sunlight preferably in the original tightly closed containers. Under these conditions the storage life is minimum 12 months.

Storage & Handling

Store indoors in a cool and dry place avoiding direct sunlight in the original tightly closed pails and drums. Under these conditions, the storage life is ca. 24 months. Handle in a well-ventilated area. Detailed safety information is contained in a material data safety sheet.