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PiMC 1253: Highly flame retardant

This FR PiMC grade has been developed for top coats over M1 SMC/BMC grades. Such combinations will meet Europe's most stringent FR tests for interiors of rolling stock, such as BS 476 and Spanish Epiradiateur M1. This PiMC 1253 still exhibits the typical coating characteristics of PiMC as can be seen from the data below.

PiMC 1253 has the following benefits:

- Non-halogenated.
- Easy to spray.
- Standard PiMC cure cycle.

Typical applications for PiMC 1253 can be found in interiors of trains and metros e.g.:

- Seats.
- Columns.
- Panels.

| Powder properties | | Unit | Test method | Typical value |
|----------------------------|--------|--------|-------------|---------------|
| Particle size distribution | D 0.5 | µm | SATP-114 | 50 – 75 |
| Brabender cycle time | 150 °C | s | SATP-104 | 75 – 115 |
| Powder stability | 30 °C | h | SATP-128 | > 8 |
| Storage temperature | | °C | - | < 20 |
| Shelf life | | Month | - | 6 |
| Density | | kg/ltr | - | 1.3 – 1.5 |
| Bulk density | | kg/ltr | - | 0.6 – 0.7 |

| Coating properties | | Unit | Test method | Typical value |
|---|-------------------------|--------|------------------|---------------|
| Gloss | 20 ° | % | - | 40 |
| | 60 ° | % | - | 75 |
| | 85 ° | % | - | 90 |
| Scratch resistance | | N | DIN 53799 | > 2 |
| Taber abrasion S42 paper: 500 g load | 500 turns | g | DIN 53799 | < 0.5 |
| Falling ball impact | 125 cm | Visual | DIN 53799 | No damage |
| Fire retardancy (SMC: M1-type) | Fire propagation index | | BS 476, part 6 | 10.4 |
| | Surface spread of flame | | BS 476, part 7 | Class 1 |
| | Toxicity test | | BS 6853, Annex B | R = 0.55 |
| | Epiradiateur test | | NF P 92-501 | M1 |
| Graffiti cleaning | | | NF F 31-112 | G1 |

SATP = Synres Almoco Testing Procedure (details available on request)

All statements herein are expressions of opinion, which we believe to be accurate and reliable, but are presented without guarantee or responsibility on our part, nor freedom from any patent to be inferred.

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