

**TECHNICAL INFORMATION**

# POLIMAL<sup>®</sup>

# 148 RP

**Application**

**Polimal 148 RP** is recommended for production of polymer concrete.

**Features**

**Polimal 148 RP** is accelerated, constructional, terephthalic unsaturated polyester resin. It is characterized by increased chemical resistance and better mechanical parameters than standard orthophthalic resin.

Advantages of the resin use:

- good miscibility and wetting of mineral fillers in the resin
- good processing features

**Typical parameters**

| Parameter/Standard   | Unit  | Value            |
|--|-------|------------------|
| <b>Viscosity at 23°C</b><br>acc.to ISO 3219                | mPa s | <b>200 - 300</b> |
| <b>Gel time at 25°C</b><br>acc. to DIN 2535                | min   | <b>4 – 8</b>     |
| <b>Flexural strenght</b><br>acc. to ISO 178                | MPa   | <b>120</b>       |
| <b>Tensile strenght</b><br>acc. to ISO 527                 | MPa   | <b>70</b>        |
| <b>Tensile modulus</b><br>acc. to ISO 527                  | MPa   | <b>3500</b>      |
| <b>Elongation at breake</b><br>acc. to ISO 527             | %     | <b>2,0</b>       |
| <b>Heat Deflection Temperature (HDT)</b><br>acc. to ISO 75 | °C    | <b>65</b>        |
| <b>Barcoll hardness</b><br>ASTM-D 2583-95                  | °B    | <b>40</b>        |
| <b>Guarantee period</b>                                    | month | <b>3</b>         |

Gel time with : 2,0% Luperox K-1S

Mechanical parameters refer to not reinforced resin curing for 24 hours at room temperature and post curing for 2 hours at 80°C.

**Storage conditions**

**Polimal 148 RP** should be stored in close package in a dry, shady and cool places at temperatures not exceeding 25°C.

**Processing conditions**

**The resin should be mixed before use.**  
The resin of the temperature above 15°C is required for processing. Good curing requires ambient temperature at least 18°C and low air humidity. The favourable curing conditions are received while using 2% of MEKP hardener (e.g. Luperox K-1 S). It is possible to adjust the gel time by changing the amount of hardener in the range of 1 – 2 %.

**Polimal<sup>®</sup>** is the trade name reserved for unsaturated polyester resins produced by **CIECH - Sarzyna S.A.**

**Luperox<sup>®</sup>** is the trade name registered for products of **ARKEMA** company.

Data and suggestions included in this document are on the basis of our own tests and are considered by us as reliable. However, we cannot take any responsibility for actions and losses directly or indirectly resulted from using our products. User should check the product quality, safety and properties before its using.

**Note:**

The information does not substitute Material Safety Data Sheet or Technical Specification, which are superior documents and are available on the customer's request.