Technical Information

# Gelcoat NPG x P/Psp/FP

**DATE: 24.02.2022**

**x - colour**

## GELCOAT NPG x P/Psp/FP

Gelcoat NPG x P/Psp/FP is unsaturated polyester resin gelcoat based on isophthalic acid and neopentyl glycol.

## APPLICATION

Recommended for production of protective outer layers by hand or spray lay-up application on products made with polyester-glass laminates resins. It offers an esthetic look as well as protection against environmental factors, water, UV light.

Application version:

- **P** (hand lay-up)
- **Psp** (spray lay-up)
- **FP** (spray lay-up with increased viscosity)

## PACKAGING

20 kg, 220 kg

## COLOUR

Gelcoat is available in colours accordingly to RAL palette or upon customer's request in other shades based on a provided sample.

## SHELF LIFE

3 months from the date of manufacture.

## PROCESSING CONDITIONS

**Gelcoat should be mixed before use.** Required temperature of gelcoat before processing is minimum 18˚C. Ambient temperature above 18˚C and low air humidity provide good curing conditions. The best curing conditions are obtained using 2% MEKP as hardener. It is possible to adjust gel time by varying of amount of hardener, the best withing the range of 1,2 – 2%. Use standard MEKP hardeners for polyester gelcoats, e.g. Luperox® K-1S.

## STORAGE

Gelcoat should be stored in closed packaging in a dry, cool place, protected from sunlight and adapted for storing flammable materials at temperatures not exceeding 25˚C.

## SPECIFICATION

| Parameter | | Unit | Value |
|---|---|---|---|
| **Viscosity 25˚C** Brookfield sp.27/rpm.1 | **P** | mPas | 35 000 ÷ 85 000 |
| | **Psp** | | 24 000 ÷ 44 000 |
| | **FP** | | 40 000 ÷ 80 000 |
| **Gel time at 25˚C** 2% Luperox® K-1S | | min | 8 ÷ 16 |
| **Flexural strength** acc. ISO 178 | | MPa | 105 |
| **Stress at break** acc. ISO 527 | | MPa | 63 |
| **Elongation at break** acc. ISO 527 | | % | 2,1 |
| **Heat deflection temperature (HDT)** acc. ISO 75 | | ˚C | 89 |
| **Barcol hardness** ASTM D 2583-95 | | B | 48 |

Gel time with 2% Luperox® K-1S

Mechanical parameters refer to unreinforced IZO-NPG base resin cured for 24 hours at room temperature and post-curing for 2 hours at 80˚C.

**Luperox®** is a trade name registered for **ARKEMA**.



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