

# TECHNICAL DATASHEET

## GELCOAT

### DESCRIPTION

Gelcoat is based on iso-modified polyester resin.

Gelcoat meets the most stringent requirements for working properties and is formulated to give glassfibre-reinforced polyester resin products good weather and water resistant surface protection.

Recommended peroxide dosage: 1.3 - 2.0 %.

Recommended film thickness: 0.55-0.85 mm (wet film)

### TYPICAL PROPERTIES

PHYSICAL DATA IN LIQUID STATE AT 23°C

| Properties                                   | Unit              | Spray quality | Hand quality | Test method    |
|--|-------------------|---------------|--------------|----------------|
| Viscosity                                    |                   |               |              |                |
| - Brookfield RVF<br>sp.4/4 rpm               | mPa.s(cP)         | 9000-15000    | 14000-20000  | A050           |
| - Cone & Plate                               | mPa.s(cP)         | 220-300       | 750-900      | A010           |
| Density                                      | g/cm <sup>3</sup> | 1.1-1.3       | 1.1-1.3      | B020           |
| Flash point                                  | °C                | 32            | 32           | ASTM D 3278-95 |
| Gel time: 1.5%                               | minutes           | 8-20          | 10-25        | G020           |
| Storage stability from<br>date of production | months            | 6             | 6            | G180           |

MECHANICAL/PHYSICAL DATA FOR THE GELCOAT'S BASE POLYESTER RESIN IN CURED STATE

| Properties            | Unit         | Value     | Test method             |
|-----------------------|--------------|-----------|-------------------------|
| Tensile strength      | MPa          | min. 60   | ISO 527-1993            |
| Tensile modulus       | MPa          | min. 3500 | ISO 527-1993            |
| Tensile elongation    | %            | min. 2.5  | ISO 527-1993            |
| Heat distortion temp. | °C           | min. 80   | ISO 75-1993             |
| Hardness Barcol       | -            | min. 40   | ASTM D 2583-99          |
| Water absorption      | mg/testpiece | max. 80   | Det norske Veritas 1981 |

## **STORAGE**

Store in the shade, out of direct sunlight. Keep storage temperature below 25° C. Unseal container just before use. Shelf life will be reduced reaching higher temperature.

## **SAFETY**

**READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET BEFORE WORKING WITH THIS PRODUCT**

The information contained in this document (which is to be intended only for explanatory purposes) is correct and accurate and is based on our technical and scientific knowledge and on literature at the date of publication. Such information relates only to use of the products in the pure state and for the purposes stated herein. Nothing in the information contained in this document shall be deemed to be a warranty or a representation (explicit or implicit) by the supplier, and/or taken or construed as infringing of any existing patents. The supplier shall not be under any liability or responsibility for any of the information provided under this document or for any errors, omissions or misstatements, even with regard to results to be obtained through the use of the aforesaid information.