

PRODUCT DATA SHEET

SikaBiresin® F512 CN

Highly filled PU casting system for potting balancing boxes in wind turbine blades

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

| Properties | Component A SikaBiresin® F512 CN | Component B SikaBiresin® KD100 CN |
|---|---|--------------------------------------|
| Chemical base | Polyol | Isocyanate |
| Density | 2.48 kg/l | 1.23 kg/l |
| | mixed 2.35 kg/l ^A | |
| Mixing ratio | A : B by weight 100 : 7.8 A : B by volume 100 : 15.5 | |
| Viscosity (CQP029-4) | 21 000 mPa·s | 200 mPa·s |
| | mixed 11 000 mPa·s | |
| Pot life (CQP021-3 / Gel Timer TECAM) | 20 minutes ^B | |
| Shore D hardness (CQP023-1 / ISO 868) | 55 | |
| Tensile strength (CQP036-2 / ISO 527) | 5 MPa | |
| Elongation at break (CQP036-2 / ISO 527) | 30 % | |
| Glass transition temperature TMA (CQP053-1 / ISO 11359) | -30 °C | |
| Shelf life | 9 months ^C | |

CQP = Corporate Quality Procedure

^{A)} cured product at 23 °C^{B)} at 23 °C, 100 g^{C)} stored (unopened) in a dry place at 15 – 25 °C**DESCRIPTION**

SikaBiresin® F512 CN is the base part of a two components polyurethane potting compound used with SikaBiresin® KD100 CN hardener.

PRODUCT BENEFITS

- Good flowability
- Low shrinkage
- Low exothermic reaction
- High density to maximize load capacity of balancing boxes

AREAS OF APPLICATION

SikaBiresin® F512 CN is used to fill balancing boxes in wind blades so as to match weight of blades prior mounting on each turbine. This product is suitable for experienced professional users only.

METHOD OF APPLICATION

Product preparation

The material and processing temperature must be 15 – 25 °C.
SikaBiresin® F512 CN must be mixed thoroughly before use.
Pay attention to dry conditions and dry mould surface while process.
Packaging of hardener (B) must be closed tightly immediately after use to prevent moisture ingress.

STORAGE CONDITIONS

Both components must be stored at temperature between 15 °C and 25 °C in original unopened containers.
SikaBiresin® F512 CN minimum shelf life is 9 months under room conditions (15 – 25 °C), when stored in original unopened containers.

After prolonged storage at low temperature, crystallisation of components may occur. This is easily removed by warming up for a sufficient time to a maximum of 60 °C. Allow to cool to room temperature before use.
Containers must be closed tightly immediately after use to prevent moisture ingress. The residual material needs to be used up as soon as possible.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.
Copies of the following publications are available on request:

- Safety Data Sheets

PACKAGING INFORMATION

SikaBiresin® F512 CN

| | |
|------|--------|
| Drum | 300 kg |
|------|--------|

SikaBiresin® KD100 CN

| | |
|------|--------|
| Drum | 250 kg |
|------|--------|

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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