

# S&P Resicem

Saturant for S&P FRP systems (water vapour permeable)

07/07

## Application

S&P Resicem is used as a saturant for the following S&P sheet systems:

**S&P C-Sheet**  
**S&P G-Sheet**  
**S&P A-Sheet**

S&P Resicem can be used for dry or wet lay up S&P FRP systems. S&P Resicem also provides an additional alkaline deposit for the internal rebars.

## Description of product

Solvent-free, 3-component epoxy resin with formulated amine hardener. The product is further enhanced using special ingredients as well as additional fillers and additives.

## Features

When fully cured the hardened S&P Resicem is resistant to alkaline solutions, diluted acids, salt solutions, mineral oil and aliphatic carbon hydrides. S&P Resicem is resistant to continuous as well as changing temperatures in the range of -30°C to +55°C at dry exposure and up to +40°C at wet exposure.

## Substrate

Cementitious surfaces with a residual moisture of up to 10 – 12 % must be clean and free from loose parts, grease and oil.

## Processing

S&P Resicem is supplied in the required mixing proportions. The powder component (Comp. III) is added to the resin (Comp. I). Mixing of the components is ideally done using a slowly revolving mixing device. When the hardener (Comp. II) is added, thorough stirring is again required. Proper mixing from the sides and from the bottom ensures that the hardener is evenly distributed throughout the container. The mixed product must be of homogeneous appearance, i.e. streak-free. The temperature of the components at the time of mixing should ideally be 15° – 20°C. Higher temperatures cause a considerably shorter application time.

## Safety precautions

The hardened S&P Resicem is physiologically harmless. The hardener (Comp. II) is caustic. Strict measures have to be taken to avoid any skin contact with the resin (Comp. I) and the hardener (Comp. II). During handling, it is recommended to wear rubber gloves. In the case of skin contact, wash immediately with plenty of soap and water. In the case of eye contact, rinse at once with plenty of water and additionally use an eye bath (available in pharmacies). Seek immediate medical advice.

## Cleaning of tools

In the case of work interruptions exceeding 15 minutes, all tools must be thoroughly and carefully cleaned and rinsed using S&P Cleaner.

## Safety directions

For directions regarding dangers, safety and waste disposal please refer to the EN material safety data sheet and the label on the containers.

### Technical data

(The standard values below indicated are based on +20°C and 50% relative humidity of air.)

Density	1.36 kg/l	
Mixing ratio by weight	100 parts of resin/hardener (2:1) 80 parts of powder	
Thermal elongation	< 50 x 10 <sup>-6</sup> m/m°K	
Application temperature	+8°C bis +35°C	
Application time at	+10°C	3 h
	+20°C	50 min
	+30°C	35 min
Dust-dry after	4 h	
Hardening time	7 days	
Tensile strength after	7 days	> 20 MPa
Modulus of elasticity	+20°C	> 5'000 N/mm <sup>2</sup>
Freeze/thaw cycles and de-icing salts	high	
Bond strength on concrete	failure in concrete	
Bond strength on steel	> 12 N/mm <sup>2</sup>	
Bond strength to FRP systems	> 12 N/mm <sup>2</sup>	
μ H <sub>2</sub> O after	10 days	16`000
	21 days	6`400
	35 days	approx. 5`200
	Water vapour permeability is reached after longer testing times.	
Toxicity class	<b>Comp. I</b>	<b>9</b>
Toxicity class	<b>Comp. II</b>	<b>8</b>
Toxicity class	<b>Comp. III</b>	<b>not classified</b>
Transport class / UN No.	Comp. I	III / 3082
	Comp. II	III / 2735

### Packaging

Units of 10 kg or container of 1'000 l

### Storage

In original containers at +10°C to +25°C at least 24 months

As of all other technical indications and information provided by us, the only purpose of this data sheet is to describe the nature of this product, as well as its possible applications and fields of use. However, it does not guarantee certain properties of this product or its suitability for a determined purpose of application; furthermore, the directions for use given in this data sheet are not complete. Since this data sheet is subject to modification, it is the duty of our clients to ensure that they refer to the latest version. The updated data sheets can be obtained at all times from all our locations. In addition, the current general terms of business are applicable.

