S&P Resicem HP

Epoxy Adhesive (Laminating Resin)

DESCRIPTION

High performance, solvent-free, 3-component epoxy resin with formulated amine hardener. S&P Resicem HP is water vapour permeable. The product is enriched using special ingredients as well as additional fillers and additives.

WHERE TO USE

- S&P Resicem HP is used as a laminating resin for the following S&P sheet systems:
  - S&P C-Sheet
  - S&P G-Sheet E / AR
  - S&P A-Sheet
- S&P Resicem is also suitable for corrosion protection of the existing internal rebars

PERFORMANCE FEATURES

- Good wettability
- Good stability
- High performance
- Can be applied by machine
- Resistant to alkaline solutions, diluted acids, salt solutions, mineral oil and aliphatic hydrocarbons

PRODUCT DATA

Generic description
S&P Resicem HP

Appearance
Component A – Translucent yellow liquid epoxy resin solution
Component B – Transparent hardener for epoxy resin
Component F – Binding agent, powder, white

Delivery
10 kg unit

Density
Comp. A: 1.17 kg/l
Comp. B: 0.98 kg/l
Comp. F: 2.8–3.2 kg/l
Mixed A+B: approx. 1.3 kg/l

Storage

Component A + B:	24 months in original packaging at + 5 to + 35 °C
Component F (powder):	12 months in original packaging at + 5 to + 35 °C

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APPLICATION

S&P Resicem HP is supplied in the required mixing proportions. The powder component (Comp. F) is added to the resin (Comp. A). Mixing of the components is ideally done using a low speed mixing device. When the hardener (Comp. B) 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 reduce the application time considerably.

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

Consumption

Approximately 1.3–1.7 kg/m² dependent on temperature, porosity of substrate and S&P sheet system being installed.

MECHANICAL PROPERTIES

S&P Resicem HP Epoxy adhesive (Laminating resin)	**Test Method**	**Unit**	**Value**		
Modulus of elasticity (compression)	EN 13412:2008	N/mm²	≥6500		
Pot life	EN ISO 9514 & EN 1542	Minutes	45		
Coefficient of thermal expansion	EN 1770:1999	µm/m °C	48		
T_g Glass transition temperature	EN 12614:2006	°C	54		
Linear shrinkage	EN 12617-1:2004	%	0.01		
Adhesion steel to steel (shear strength)	EN 12188:2000	N/mm²	50° ≥ 50	60° ≥ 60	70° ≥ 70
Adhesion steel to steel (tensile strength)	EN 12188:2000	N/mm²	14.5		
Mix ratio		By weight	4.2 : 1.8 : 4 (A : B : F)		
Application temperature		°C	Between + 8 and + 35		
Touch dry		Hours	4		
Final cure		Days	7		

The test results shown above are carried out in laboratory conditions according to the relevant test method stated

TESTING

Please contact us if you require any information regarding tests that have been conducted.

Test reports may be available.

CLEANING

Tools cleaning

In the case of work interruptions exceeding > 30 minutes, all tools must be thoroughly and carefully cleaned and rinsed using S&P Cleaner.

HEALTH & SAFETY

Special precautions

The hardened S&P Resicem HP is physiologically harmless. The hardener (Comp. B) is caustic. Strict measures must be taken to avoid any skin contact with the resin (Comp. A) and the hardener (Comp. B). 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 wash kit (available in pharmacies). Seek medical advice immediately.

Important safety instructions

For detailed safety information, we recommend that you see the current safety data sheet which is available on www.sp-reinforcement.eu or you can contact us on +41 41 825 00 70.

S&P's range of products are for industrial use. They must be installed by specialised personnel and competent professionals with adequate training. The installation instructions must be followed and can be found in S&P application manuals and several "Guideline" documents / existing technical notes.

The information in this technical data sheet is valid for products delivered by S&P Clever Reinforcement Company AG, Switzerland. Please note that the information in other countries may differ, and always use the local product data sheet in each respective country.
The information and data in this technical data sheet serve to ensure the normal intended use and normal application suitability; the information and data are based on our knowledge and experience. They do not absolve the user from their own responsibility to check the suitability and application method.

The rights to make changes to product specifications are reserved. Furthermore, our general sales and delivery terms apply. The current, most recent product data sheet is valid, and should be requested from us.

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