

TECHNICAL SHEET 28.03.02-EN



SIGILL Hybrid Crystal 850

Crystal clear adhesive sealant

1. Description, Application

SIGILL Hybrid Crystal 850 is a one-component, gun-grade, non-sag SiMP – Silyl Modified Polymer crystal clear elastic adhesive and sealant. It cures under the influence of atmospheric moisture to form a high performance compound with permanent elasticity and high resistance to ageing and weathering. Solvent- and isocyanate-free.

2. Certificates

Certified according to:
ISEGA EC Regulation 1935/2004 for food contact
EN 15651-1/3/4 TYPE F INT
EMICODE EC 1PLUS protocol
EUROFINS IAC GOLD protocol
VOC Emission class label A+

Compliant to:
LEED iEQc 4.1; SCAQMD Rule 1168; BAAQMD Reg 8 Rule 51
CARB VOC levels regulation

3. Technical data

Packaging	290 ml
Appearance	Tixotropic paste - non sagging
Color	Crystal clear
Chemical nature	SiMP - silyl modified polymer

Curing mechanism	Moisture curing
Curing trough volume [mm/24h] (NPT method 07) (23°C and 50% RH)	~ 3 mm
Hardness shore A (DIN 53505)	~ 40
Density (NPT method 06) (23°C and 50% RH)	~ 1.06 g/cm ³
Skin forming time (NPT method 17) (23°C and 50% RH)	~ 35
Elastic modulus (ISO 37 DIN 53504)	1.2 N/mm ²
Tensile strength (ISO 37 DIN 53504)	~ 2,6
Elongation at break (ISO 37 DIN 53504)	~ 250
Application temperature	from +5° to +40°C
Temperature resistance	from -40°C to +100°C (to 120°C for short therm)

4. Installation Conditions

The temperature of the air and the wall base should be from +5 °C to +40 °C, and the relative air humidity should not be higher than 80%. The optimum working temperature for both the substrate and the sealant is between +15° C and +25°C.

5. Areas of Application

SIGILL Hybrid Crystal 850 is a versatile and performant crystal clear adhesive and sealant for different applications in house interior fitting, construction finishing, furniture and industrial assembly where a crystal bond or seal is necessary. Suitable for transparent bridge and balcony parapets, weatherproofing of joints in transparent roof coverings and between window or door frames, mirror and glass assembly. Ideal for DIY and bricolage retail in fully transparent packaging.

6. Features

- Crystal clear
- Excellent resistance to ageing, weathering; color stable, non-yellowing and non-chalking
- Environmentally friendly – Free of isocyanates and solvents
- No hazard symbol required
- No bubble formation - Odorless
- Bonds and seals at the same time
- Permanently elastic
- Easy to gun with excellent tooling consistency
- Exceptional thixotropy, non-sagging, short cut off string
- No change in volume, no shrinkage
- Good primerless adhesion on all typical construction and industrial materials
- Non-staining on concrete and porous materials

7. Instruction for Use

The surfaces to be treated should be perfectly clean, dry and free from dust and grease. It is advisable to carry out preliminary adhesion tests on the support. Tooling and finishing must be carried out within the tack-free time of the sealant. Hybrid Crystal 850 can be over-painted. The paint must be tested for compatibility by carrying out

preliminary trials. Special attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and reduce the drying time of the paint itself. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film. Do not cure in the presence of curing silicone sealants. Avoid contact with solvent cleaners during cure. When applying sealant, avoid air-entrapment. Since the system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

8. Cleaning of Equipment and Personal Protective Measures

Clean the tools used with ethyl alcohol. When the adhesive has not yet hardened, it can be removed using paper or a cloth. Once hardened, the product can only be removed mechanically. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove immediately and wash with soap and water.

9. Storage, Transportation Conditions and Shelf Life

SIGILL Hybrid Crystal 850 can be stored for 15 months in its original packaging (unopened container) between 10°C and 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

10. Other Information

Technical instructions are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work. JUB also bears no responsibility in cases where the substrate for the application of our products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.

Safety measures: Follow the instructions on the safety data sheet of the product.

This technical sheet supplements and replaces all preceding editions. We reserve the right to change and supplement data in the future.

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