

TECHNICAL SHEET 28.04.01-EN



SIGILL PU Extreme 990

All-purpose adhesive sealant

1. Description, Application

SIGILL PU Extreme 990 is an elastic, one-component polyurethane adhesive sealant for numerous applications. It cures under the influence of atmospheric humidity to form a high-performance elastic adhesive with permanent elasticity and resistance to aging and weathering.

2. Certificates

Certified according to:
 EN 15651-1 / 4 TYPE F INT / EXT / PW INT / EXT

Tested according to:
 ISO 11600 Type F Class 25 subclass HM
 LEED IEQc 4.1
 Rule SCAQMD 1168
 BAAQMD Reg 8 Rule 51

3. Technical data

Packaging	310 ml
Color	Black and gray
Appearance	Thixotropic paste without sag
Chemical nature	Hygro-hardening polyurethane
Specific weight [g/cm³] (NPT method 06) (23°C and 50% RH)	~ 1.33

Skin time [min.] (NPT method 17) (23°C and 50% RH)	~ 50
Curing trough volume [mm/24h] (NPT method 07) (23°C and 50% RH)	~2.3
Elastic modulus at 100% [N/mm²] (ISO 37 DIN 53504)	~ 0.7
Elongation at break [%] (ISO 37 DIN 53504)	~ 570
Tensile strength [N/mm²] (ISO 37 DIN 53504)	~ 1,7
Application temperature [°C]	from +5° to +40°C
Temperature Resistance [°C]	from -40°C to +100°C
Joint movement capability (EN 15651/1; ISO 11600)	+/- 25 % of width of the joint
Hardness SHORE A (DIN 53505)	~ 38

4. Installation Conditions

The temperature of the air and the wall base should be from +5 to 40°C.

5. Areas of Application

Suitable for sealing pre-painted metal sheet, stainless or galvanized steel, copper and metals in general. It is capable of adhere to glass, wood, concrete and various rigid-type plastics.

It is paintable with most enamels except alkyd enamels.

6. Features

- Special for joints between sheets
- Good adhesion even on porous materials
- Overpaintable with many water and solvent based paints (preliminary tests recommended)
- Permanently elastic; allows $\pm 25\%$ joint movement
- Good thixotropy; non sagging
- Excellent adhesion without primer on all typical construction and industrial materials
- Non-staining. Neutral cross-linking, does not attack surfaces

7. Instruction for Use

Adhesion surfaces must be perfectly clean, dry and free of dust and grease. SIGILL PU Extreme 990 has excellent adhesive properties and does not require the use of primers on most common building materials.

However, due to the variety of some unpredictable characteristics of these substrates, preliminary testing is recommended. For example, prefabricated panels using release agents other than polyethylene film should be mechanically sanded or abraded and free of dust.

For easier use or application at low temperatures, it is recommended that the material be stored at a temperature of about 25°C before use. It is imperative that the sealant does not adhere to the bottom of the joint, so for proper application, it is necessary to place a closed-cell polyethylene cord (backing rod) at the correct depth. If necessary, apply an appropriate primer to the sides of the joint and observe the waiting time in order to prevent trapped solvent, under conditions of increased temperature, from creating bubbles in the sealant during curing.

Extrude the sealant ensuring that it is in full contact with the sides of the joint. Smoothing and finishing should be

done within the skin time of the sealant. SIGILL PU Extreme 990 can be overpainted. The compatibility of the paint product must be tested for compatibility by conducting preliminary tests. Pay attention to the presence of alcohol or alkyd resins, as they may interfere with the curing process of the sealant, increasing its timing. Do not apply in the presence of silicone sealants undergoing crosslinking. Since the system cross-links with moisture, allow sufficient exposure to air.

8. Cleaning of Equipment and Personal Protective Measures

Clean used tools with alcohol. When the adhesive has not yet hardened, you can remove it from the spatula using paper or cloth. Once hardened the product can only be removed mechanically. Avoid contact with skin, possibly using latex, rubber or polyethylene gloves. In case of contact with skin wash immediately with soap and water.

9. Storage, Transportation Conditions and Shelf Life

SIGILL PU Extreme 990 can be stored for 15 months in the original packaging, in a cool, dry place (between 10°C and 25°C).
Keep away from sources of moisture, heat sources and direct sunlight contact.

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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