



BODY 944 PU HYBRID ADHESIVE SEALANT

Technical Data Sheet No 719

General Description

HB BODY 944 PU STP, is a high demands hybrid polyurethane, that covers the needs for adhesion and sealing in auto refinish business. It is designed to be suitable for various applications like, adhesion, sealing, UV & weather resistance, overpaintable, fast curing, isocyanate & solvent free.

The technology of Silane Terminated Polyurethane Prepolymers, were we have curing with the water of atmospheric moisture, offers a final durable elastomer with good behaviour in high dynamic stresses, impact and shock proof, because there is absence of bubbles, resulting a final elastomer with outstanding performance.

STP PU technology, offers very good adhesion to various substrates like metals, plastic, wood, glass, ceramics, concrete etc. Also it can be applied over painted surfaces like primers, paints, clear coats etc. Tests with actual substrates and conditions have to be performed, in order to ensure adhesion and sealing good properties.

The product is user and eco friendly as it is free from isocyanate and solvents. It doesn't contain any silicones or PVC that may affect the final application, increasing UV, ageing & weathering resistance.

Surface

HB 944 PU STP, shows very good adhesion, in many different substrates like :

- Metal (carbon steel, aluminium, inox, galvanised steel etc.)
- Plastic (Polyethylene, Polyester, Polycarbonic etc.)
- Wooden surfaces
- Glass
- Ceramics
- Concrete
- Painted surfaces

Pretreatment / Cleaning of substrate



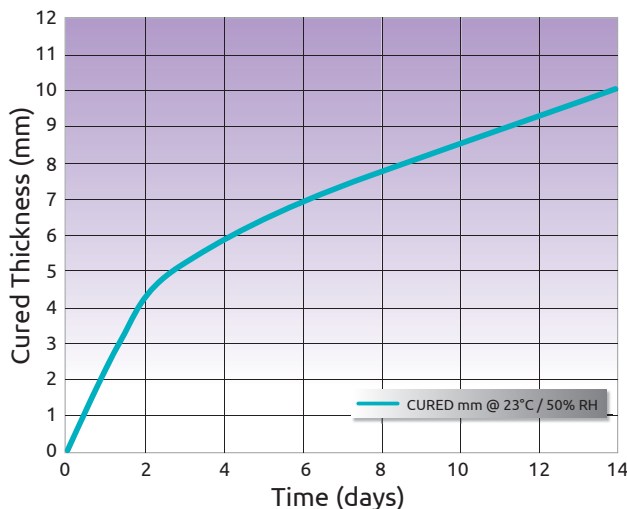
Surface must be clean from dirt, dust, oils & grease. but there is no need for further treatment with any type of primer or activator.

Uncured material can be formed with a brush using HB Body 740 Acrylic thinner, with no affection of the material. HB 740 Acrylic thinner can be used also for cleaning uncured materials from tooling. Cured PU can only be removed mechanically



Make sure you always use appropriate protection.

944 PU CURING RATE



HB 944 PU STP, cures with reaction of moisture that is present in the atmospheric air. In low temperatures, the water content of air is lower, especially in temperatures below 0°C (32°F), so the curing rate slows down.

The diagram shows the curing rate of HB 944 PU STP, at 23°C (73°F) and 50% relative humidity.

First days the curing rate is quite high, thus giving a very low skin time (15-20 min).

For adhesion of big surface areas, it is better to apply small beads, rather than big amounts that will take time to be fully cured.

Technical Specifications:

Chemical Definition:
Silane Terminated Polyurethane Prepolymer

Colour:
Black

Curing Mechanism⁽¹⁾
Humidity curing, without CO₂ bubbles formation inside

Application Temperature:
5 – 40 °C (40 – 105 °F)

Skin Time⁽²⁾
15 min

Overpaintable wet on wet⁽²⁾
YES

Service Temperature:
-40 °C – 90 °C

Shore A hardness (ISO 868 / DIN 53505 / ASTM D 2240)
55

Specific Gravity:
1,50 ± 0,05 g/ml

VOC (2004/42/EC)
V.O.C. FREE

Theoretical Coverage:
-

Cleaning of equipment:
Clean after final use with BODY 767 EXTRA NITRO THINNER

Remarks:
• It can also be used by countries that do not adopt the VOC legislation

Storage shelf life:
• Store in a cool place (+5°C - +25°C) and use within 12 months for best results. Guaranteed shelf life of 12 months in unused original containers.

⁽¹⁾ For curing speed refer to diagramm

⁽²⁾ @ 23°C (73°F) / 50% RH

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