

Collano RS 8505

2C silane adhesive, elastic and high-strength, non-sag

Characteristics

Base

Silane-terminated polymer/Epoxy resin

Colour

Comp. A: white, Comp. B: black
Mixture Comp. A+B: grey

Density

Comp. A: 1.03 g/ml, Comp. B: 1.15 g/ml
Mixture Comp. A+B: 1.07 g/ml

Solids content

100%

Fluidity

Non-sag

Viscosity (Brookfield)

Comp. A: ca. 350'000 mPa·s
Comp. B: ca. 40'000 mPa·s

Form

Liquid

Storage

9 months in unopened original packaging
at 15–25 °C (frost susceptible)

Application area and materials

For metal, HPL, glass-fibre reinforced plastic and other plastics, metal construction and sheet metal fabrication, car body, vehicle and ship construction, façade elements and panels, corner joints on aluminium window profiles, glass and plastics in combination with wood, metal and mineral substrates. Polycarbonate possible - be sure to follow the bonding instructions. Not suitable for bituminous surfaces, PE, PP and Teflon.

Performance | Material properties

Information derives from tests carried out by Collano. For calculations and design etc., the processing personnel should carry out appropriate practical tests. Collano reserves the right to adapt or complete the values.

Tensile shear strength

8 N/mm² on aluminium, stainless steel, DIN EN 1465
Subsequent tempering to 80 °C improves tensile shear strength

Elongation at break

250%, DIN EN ISO 527

Modulus of elasticity

60 N/mm², DIN EN ISO 527

Hardness

Shore A 85, DIN EN ISO 868

Temperature resistance

-50 °C to +150 °C, at short-term temperature stability < 180 °C

Water resistance

Very good

Resistance

Short-term contact with Ethanol, gasoline lead-free 95, Ethyle acetate, Toluene, MEK, engine oil at 23 °C and 50 °C

Packaging

2C Double cartridges 400 ml (Comp. A+B)
Further containers on request

Application data

The curing behaviour of 2C silane adhesives requires optimal mixing quality. The specified figures are guideline values and are based on results of tests on precision bonds made under standard climatic conditions (20°C and 65% relative humidity). Different conditions may lead to deviations from the said specifications.

Mixing ratio

Parts by weight A:B = 2:1

Adhesive application quantity

> 150 g/m²

Application temperature

5–40 °C

Maximum open assembly time

< 40 minutes

Pot life

< 60 minutes

Fixing time

20 °C: > 6.5 hours

40 °C: > 3.5 hours

60 °C: > 1.75 hours

until 1 MPa tensile shear strength is reached

Conditioning time

48 hours

Final strength

21 days

Application

Press and dose from the 2K cartridge gun from a double cartridge. Mix the two components homogeneously using mixing nozzle MFH 10-24. Discard the first 10 g. When processing from separate containers, mix the two components A and B in proportion 2:1 by weight. Make sure that the mixture is homogenous (this is indicated by a uniform grey colour). Remove grease from the parts to be joined with Collano HP 3100 or Ethanol. For optimum wetting, it is essential that the surfaces be clean and free of grease.

Additional details

Clean and activate any slightly soiled metal surfaces with Collano HP 1000 adhesive cleaner. Can be overcoated with acrylic emulsion paints and baking varnish. For industrial application the manufacturing process and corresponding contract plant are to be specified in advance.

Clean-up

Non-cured adhesive residues with ethanol. Cured adhesive by mechanical processing.

Safety

The wearing of protective gloves and safety goggles is recommended while handling the liquid product. Follow the instructions on the Safety Data Sheet.

Guarantee

We guarantee the consistency and faultless quality of this product, manufactured in accordance with ISO quality standards, which has been developed on the basis of our long standing experience with the recommended applications under the specified conditions. Material, processing, and application conditions may significantly influence product properties. Pre-application tests by the user are therefore essential. For non-specified applications or deviations in application conditions, we recommend that Collano's technical support service be consulted first. Collano's general sales and delivery terms and conditions shall apply.

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