

# Collano DW 2040

Water- and heat-resistant dispersion adhesive for wood, D3 and Watt 91, with Collano Hardener HR 910 load class D4

## Characteristics

### Base

PVAc-Dispersion

### Colour

White

### Density

1.1 g/cm<sup>3</sup>

### Viscosity (Brookfield)

12'000 mPa·s

### pH Value

3

### Chalking point

6 °C

### Form

Liquid

### Flammability

Not flammable

### Storage

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

## Application area and materials

For window and door bonding, laminated and finger-joints for non-structural applications, divider and element manufacture, general bonding of woods and composites in kitchen, laboratory, and interior construction, as well as for the protected outdoor area. For adhesive bonding of bare and brushed aluminium sheet, chrome-plated steel and uncorroded metals onto particleboard, wood fiber panels and plywood, and for laminating barrier veneers onto aluminium. Anodized aluminium only after preliminary examination. Suitable for high frequency bonding.

## Performance and material properties

Information derives from tests carried out by Collano and testing institute ift Rosenheim. Further information on request.

### Bond strength

EN 204, stress group D3

Stress group D4 with Collano Hardener HR 910

### Temperature resistance

EN 14257 (Watt 91) > 7 N/mm<sup>2</sup> at 80 °C

### Eco label

eco1, very suitable for Minergie-ECO

### Guidelines

FFF-FKS-EMPA 08.03/2013

## Packaging

Plastic pails 5 kg and 25 kg

IBC containers 1'135 kg

## Application data

The curing behaviour of PVAc dispersions depends on the absorbency and strength of the adherends, as well as the ambient temperature and press temperature. 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). Deviations are possible depending on the type of use.

### Adhesive application quantity

80–200 g/m<sup>2</sup>

### Pressure

0.1–0.8 N/mm<sup>2</sup>

### Material moisture content

8–12%

### Application temperature

> 12 °C

### Maximum open assembly time

< 12 minutes

### Pot life

12 hours with Collano Hardener HR 910

### Minimum press time

20 °C: 15 minutes

50 °C: 4 minutes

80 °C: 1 minute

Continuous short-cycle process:

70 °C: > 40 seconds

High frequency press: > 15 seconds

Wood-metal bonding at 20 °C: > 60 minutes

### Conditioning time

2 hours

### Final strength

7 days

## Application

It is essential that the surfaces are clean and grease-free in order to provide the best adhesion and quality of join. Apply the adhesive to one of the surfaces, or to both surfaces for hardwoods and exotic woods, and for slot-tenon joints. For edge bonding and soft-forming with the cold-glue activation process, the edging materials first have to be precoated with Collano DW 2040.

### Additional details

In contact with iron, adhesive may cause wood discoloration. Water-resistance of the seal is increased by adding 5% (by weight) of Collano Hardener HR 910. Mix well with hardener. Mixture can be processed for 12 hours. Metal surfaces can be covered with a surface protective cover which must be removed. It is essential to do preliminary trials. Always glue metals without using hardener. Due to the risk of corrosion, all parts which come in contact with this glue during processing must be made of stainless steel (quality V4A) or synthetic material.

## Clean-up

With water before adhesive has dried.

## Safety

Follow the instructions on the safety data sheet.

**The current data sheets are available at:**

[collano.com/en/downloads](https://collano.com/en/downloads)

### 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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