

**CONSTRUCTION**

# CARBO PUR21

## HIGH-GRADE DUAL-COMPONENT POLYURETHANE ADHESIVE



**DESCRIPTION**

CARBO PUR20 is a high-grade dual-component polyurethane adhesive, water- and solvent-free.

Component A is a polyol filled with mineral substances and added processing aids.  
Component B is a polyisocyanate.

After mixing the components, a creamy and easily spreadable adhesive is obtained.

**APPLICATION AND USE**

CARBO PUR21 is recommended for mosaic-, vertical lamella-, lam-, strip- and multi-layer parquet and for solid planks and wood-block RE and WE.

Suitable for surfaces with integrated floor heating.

**ADVANTAGES**

- Facilitates rapid, secure working
- Suitable for swell-resistant of woods that make high demands on adhesive techniques
- To be used on absorbent and non-absorbent layers
- Low emission values



**TECHNICAL DATA**

The specified data refer to standard conditions (23 °C / 50 % rel. hum.). Deviating room air conditions change the times.

**MATERIAL DATA**

Parameter	Component A	Component B	Standard
Density at 25° C	1700 ± 50 kg/m <sup>3</sup>	1230 ± 50 kg/m <sup>3</sup>	DIN 12791-1
Colour	beige	dark brown	-
Mixed colour	beige		-

**REACTION DATA**

Parameter	Details	Unit
Mixing ratio A : B (parts per weight)	8.1 : 1.0	-
Pot life (23 °C)	60 - 70	minutes
Laying period (23 °C)	60 - 90	minutes
Load bearing after	48	hours

**MECHANICAL DATA**

Parameter	Value	Unit	Standard
Shore D hardness	52 - 57	-	ISO 7619-1
Tensile shearing strength after 3 d	3 - 4	MPa	DIN EN 14293
Tensile strength 7 d (30 °C / 80 % rel. hum.)	3.5 - 4.5	MPa	ISO 527-2
Elongation at break	11 - 14	%	ISO 527-2

**APPLICATION METHOD**

1. Requirements for the subfloor

The subfloor should be clean, absorbent, permanently dry, dust free, even, free of cracks, impurities and substances inhibiting adhesion and capable of bearing loads (as per DIN 18356). Surfaces that are sealed (e. g. metallic surfaces) should be removed or roughed prior to application. In the case of absorbent substrates (anhydrite screeds e. g.), a pre-treatment with CARBO P-GRUND10 is recommended.

2. Laying

Empty the hardener container completely into the resin container. Stir the mixture in the container for at least 3 minutes, using a portable drill equipped with a mixing disk. Take care on good mixture; especially at the container edge and bottom. Apply adhesive to the surface using a notched trowel. Position the parquet and tap down. Ensure that there is a good adhesive contact to the parquet underside. Leave a gap of 1 – 2 cm between wall and parquet flooring. After a drying period between 24 - 48 hours, the parquet may be polished and sealed.

Apply only at a processing temperature of 15 °C – 30 °C and within an air humidity below 65 %.

Do not dilute the adhesive.

3. Consumption

Uses						
Mosaic parquet according to DIN-EN 13488	Vertical lamella parquet according to DIN-EN 14761	Lam parquet up to 10 mm according to DIN-EN 13227	Strip parquet according to DIN-EN 13226	Solid planks according to DIN-EN 13629	Multi layer parquet according to DIN-EN 13489	Wood-block RE and WE according to DIN 68 702
Toothing						
TKB B3	TKB B5 TKB B10	TKB B5	TKB B5 TKB B11	TKB B12 TKB B15	TKB B5 TKB B12	TKB B12 TKB B15
Consumption 700 g - 1500 g/m <sup>2</sup> depending on subsurface and parquet						

4. Final product

After 24 - 48 hours the parquet adhesive is hardened to a tough, permanent elastic and hydrolysis-resistant adhesive, which absorbs and reduces tensions in the bond. Hardening will be delayed through low temperatures (10 °C), however a stop of the reaction is not to be expected. The adhesive hardens completely.

**SAFETY INSTRUCTIONS AND LIMITATIONS**

Observe the usual precautionary measures for handling chemicals, see MSDS.

If it is necessary to apply the adhesive in cold weather, the adhesive must be permitted to warm up to the adequate working temperature. Observe the instructions for installation provided by the flooring manufacturer as well as all other available norms and data sheets.

Avoid freezing.

## **PACKAGING AND TRANSPORTATION**

All forms of packing are approved to the danger goods regulation road, railway, domestic shipping. The components can be delivered in 0.75/1/6.2/11.5 l units. Other packaging units are available on request. Details are shown in the offer.

## **STORAGE AND SHELF LIFE**

At least six months after delivery or twelve months after production, for dry storage between 10 °C and 30 °C. When this time is exceeded, we recommend having the material checked by Minova for compliance with specification.

Observe legal storage specifications (see safety data sheet).

## **DISPOSAL**

Follow local regulations.

## **APPROVALS AND CERTIFICATES**

1. General approval of construction regulation Z-155.10-37 (**DIBt**, Berlin 2010)

## **DISCLAIMER**

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## **ADDITIONAL DOCUMENTATION**

- MSDS of CARBO PUR21 component A
- MSDS of CARBO PUR21 component B

## **LIST OF REPRESENTATIVES**

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
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