



# **AQUENCE WL 041/1**

Known as DORUS MD 041/1 July 2018

# PRODUCT DESCRIPTION

AQUENCE WL 041/1 provides the following product characteristics:

Technology	PVA Dispersion
Product Type	Surface and Assembly Glue
Application	Assembly
Appearance	white
	transparent after drying

## **Application Areas**

- · Gluing solid wood
- Gluing of blockboard cores and composed solid wood panels
- Assembly and carcass gluing
- Dowel insertion as well as mortice and tenon gluing
- Gluing of laminate sheets (CPL/HPL) and veneer to chipboard, block board and the like
- Edgebanding of veneer, solid and HPL edges in stationary presses, either cold or using heating elements

## **Product Properties**

- · Medium viscosity
- · Very short setting time
- Gives tough-elastic glue joints
- Workable glue joints
- Highest bonding strength with wood and furniture gluing
- High moisture resistance in compliance with D2 as per EN 204
- High water resistance through addition of crosslinker AQUENCE CATALYST R 397 = Durability class D3 as per EN 204

# **Technical Data**

ISO 976

# AQUENCE WL 041/1:

(MFFT) DIN 53787	~+3
Viscosity, Brookfield - RVT, 6/20/20, mPa.s ISO 2555	9,500 to 14,500
pH value	4.5 to 6

## **DIRECTIONS OF USE**

# **Preliminary Statement**

Prior to application it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

# Instructions for Use

Open time (HPL on chiphoard):

# **Open Time**

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Quantity applied 100 g/m², minutes	~7
Quantity applied 200 g/m <sup>2</sup> , minutes	~12

## **Pressing Time**

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(at approx. 0,5 N/mm <sup>2</sup> , at 20°C)	
Surface bonding (Chipboard/HPL):	
Quantity applied 100 g/m <sup>2</sup> , minutes	≥7
Joint bonding (beech/ beech):	
Quantity applied 150 g/m <sup>2</sup> , minutes	≥13
Carcass bonding :	
Quantity applied 150 g/m <sup>2</sup> , minutes	≥8

Edgebanding with heating element at 120°C at 2 min.

For AQUENCE WL 041/1 with cross-linker AQUENCE CATALYST R 397:

Joints were increased water resistance is required

The data shown is based on 8-12 % wood moisture, 20  $^{\circ}$ C room and material temperature, 65 % relative air humidity and 0.5 N/mm² pressure.

The actual open time and needed pressing time will depend heavily on the working conditions such as temperature, humidity and absorption of the wood, surface characteristics, stresses in the material and application thickness of the glue, etc.

The glue is supplied ready for use. If required, it can be thinned with water up to  $3\,\%$ .

The working temperature of the workpiece and glue should be at least + 10°C.

Ensure that the parts to be bonded are close fitting and free from dust and grease.

Fit tolerances increase the setting time and reduce the bonding strength.



AQUENCE dispersion glues themselves do not give rise to discoloration of the wood. Metal parts, however, may cause discoloration, due to their reaction with the tannin of the wood (especially with oak).

Usually, application of the glue to one side only is sufficient. Applying glue to both sides, however, is recommended when gluing difficult-to-bond woods and hardwood, in order to improve bonding strength; in this case the open time is increased.

#### **Glue/Cross-linker Mixture**

AQUENCE WL 041/1 plus 1% cross-linker AQUENCE CATALYST R 397 = durability class D3 according to EN 204

Glue and cross-linker should be mixed well and used within approx. 7 hours (pot life).

The setting and pressure times of the glue/cross-linker mixture are - depending on the amount of cross-linker used - about 2-3 min longer than AQUENCE WL 041/1 glue without cross-linker.

## Cleaning

Equipment used to apply the glue may be cleaned easily using cold or luke-warm water before the adhesive has dried hard. Hard dried glue remnants have to be removed mechanically.

# **STORAGE**

Store in the original tighly closed container in a cool, dry place away from frost.

Stir well before use

Storage life up to 12 months.

## Classification:

Please refer to the corresponding safety data sheets for details on:

Hazardous Information Transport Regulations Safety Regulations

## ADDITIONAL INFORMATION

#### Disclaimer

#### Note:

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Reference 0.2