



# **AQUENCE D3 EXPRESS**

Known as Dorus D3 Express March 2013

#### PRODUCT DESCRIPTION

AQUENCE D3 EXPRESS provides the following product characteristics:

Technology	PVA Dispersion
Product Type	Water resistant as per D3 and D4 / EN 204
Application	Assembly
Appearance	white transparent after drying

#### **Application Areas**

- Joints where increased water and heat resistance is required
- Gluing solid wood
- Gluing of blockboard cores and composed solid wood panels
- Doors and stairs
- Windows, window scantlings, composite window elements
- Fleece-backing

#### **Product Properties**

- Medium viscosity
- Fast setting
- Long open time
- Gap filling
- · Gives transparent, tough-elastic glue joint
- High water resistance one component
   Durability class D3 as per EN 204
- plus cross-linker AQUENCE CATALYST R 397 (5%) = Durability class D4 as per EN 204

# **Technical Data**

### **AQUENCE D3 EXPRESS:**

Minimum film formation temperature,°C (MFFT)	~+5
DIN 53787	
Viscosity, Brookfield - RVT, 5/20/20, mPa.s	7,500 to 8,500
ISO 2555	
pH value	2.5 to 3.5
(20 °C)	
ISO 976	

#### **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

Open time (beech/beech):

Quantity applied 150 g/m², minutes

Quantity applied 200 g/m², minutes

~17

#### **Pressing Time**

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

The actual open and setting times 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.

Due to the acidic nature of a D3 and D4 dispersion adhesive, some discoloration can occur as some wood types are sensitive to acid (e. g. pine).

Metal parts 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 D3 EXPRESS plus 5% cross-linker AQUENCE CATALYST R 397 = durability class D4 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 D3 EXPRESS 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:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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