

TECHNICAL DATASHEET DANAFIX

Production of laminated wood for furniture

Product name:

DANAFIX 495 **DANAFIX 496 DANAFIX 497**

DANAFIX 498 **DANAFIX 499** Date of issue: 11.07.2016 (Replaces: 08.01.2014)

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Product description and application:

The DANAFIX 490-series has been developed especially for industrial production of laminated wood for furniture. DANAFIX 495, 496 and 499 have very short pressing time, and can be used for most wood types. They are suitable for continuous production units with automatic application of adhesive, where a very short pressing time is required.

DANAFIX 497 and 498 have been especially developed for manual application, as they have longer open assembly time and pressing time. DANAFIX 497 and 498 are used for soft woods.

Application: Application / assembling:	495	496	497	498	499
Manual:	•	•	•	•	•
Automatic (UV-trace substance)	•	•			•
Press:					
Cold press:	•	•	•	•	•
Warm press:	•	•	•	•	•
High frequency:	•	•	•	•	•
Types of wood:					
Soft (ex. pine):	•	•	•	•	•
Hard (ex. beech, oak, teak):	•	•	•		•
MDF:	•	•	•	•	•
Chipboard:	•	•	•	•	•
Treatment:					
Lye:	•	•	•	•	•
Other application areas:					
Dowel / Tenon joint – manuel:	•	•	•	•	•
Finger joint:	•	•	•	•	•
Edge bonding - wood/wood:	•	•	•	•	•
Surface bonding:	•	•	•	•	•
Article Numbers:					
5 bucket:	=	7132	6493	2023	-
20 I bucket:	6458	7136	6489	2026	6582
125 I drum:	-	7137	6496	2027	6576
1000 I container:	-	7139	6497	-	6580

Adhesive:	495	496	497	498	499			
Type:	Water based PVAc-dispersion							
Color:	White							
Solid content:	56 %	56 %	47 %	48 %	57 %			
Viscosity (Brookf.RVF, 20 rpm):	8500 cP	13000 cP	12000 cP	17000 cP	20000 cP			
Specific gravity:	1.2 kg/ltr							
рН:	5-7	5-7	4-6	5-7	5-6			
Shelf life:	Minimum 12 months in unopened packing if stored cool.							
Glue line:								
Color:	Mat transparent							
Temperature resistance:	app20°C to +70 °C (the adhesive is thermoplastic, and becomes soft at rising temperatu							

Directions for use:

Preparation: Both surfaces must be clean, dry and well adjusted. Optimum results are obtained with newly worked

wood.

Application: The adhesive is applied on one surface. When bonding hard woods, two-sided application is

recommended, as well as increasing assembly time and pressing time.

Wood moisture content: 7 - 10 %

Amount of glue: 100 - 200 g/m²

 Application temperature:
 495
 496
 497
 498
 499

15 - 80 °C | 15 - 80 °C | 15 - 80 °C | 15 - 60 °C

Open assembly time:

20 °C,50 % RH pine, 9 % moisture 7-9 min. 4-6 min. 10-11 min. 5 - 7 min. 4 - 5 min.

If assembly time is "closed", it can be increased 1 - 2 minutes. Assembly time is increased with twosided application, hard wood, lower temperature and higher humidity of air and wood. Assembly time is

reduced at higher temperatures and lower humidity of air and wood.

Pressure: Lamination pressure (side press): 8-10 kg/cm² (soft wood) and 13-15 kg/cm² (hard wood)

Top pressure: 1-1.2 kg/cm². In case of tensions in the wood a higher pressure should be applied.

Pressure times, pine approx. 50 % RH, approx. 9 % moisture content of the wood (for lamella sizes 15 mm / 43 mm):

7 / 12 mins 8 / 12 mins 30 / 40 mins 15 / 20 mins 20 °C 8 / 12 mins 40 °C 6 / 10 mins 6 / 10 mins 20 / 30 mins 10 / 15 mins 5/9 mins 60 °C 4 / 6 mins 4 / 6 mins 10 / 20 mins 5 / 10 mins 2,5 / 5 mins 80 °C 3/5 mins 3/5 mins 5 / 10 mins 3/5 mins

Pressure times should be increased for hard woods, two-sided application, higher humidity of the air and

higher moisture content of the wood. Full strength is usually obtained after 24 hours.

Cleaning: Wet adhesive can be removed with water. Dried adhesive can only be removed by soaking in lukewarm

water or with the use of organic solvents (ex. acetone).

Storage: Adhesive should be stored cool (max. 20 °C) in tightly closed packing. Must be protected from frost.

All stated times are meant as a guideline. Sufficient tests should be carried out to establish final working conditions.

Safety:

Hazard symbols: None Risk & safety phrases: None

For further information concerning safety, refer to Safety Datasheet.

Further information:

DANA LIM offers a range of adhesives for professionals: In the 400-series Wood adhesives DANA LIM offers:

100-series: Upholstering adhesives 400-series: Special adhesives

200-series: Flooring adhesives 410-series: Adhesives for edge-bonding (Cold-Activating)

300-series: Wall adhesives 430-series: Moisture resistant D3-adhesives 400-series: Wood adhesives 440-series: Moisture resistant D4-adhesives 500-series: Sealants & PU-foams 450-series: Urea-formaldehyde adhesives

600-series: Building-additives, fillers etc. 460-series: Adhesives for dowel-, tenon and finger joints

700-series: Paper-, packaging- and newspaper adhesives 470-series: Adhesives for foiling of PVC, metals etc.

800-series: Hot melt 480-series: Adhesives for lacquered wood

900-series: Cleaning-, release agents and hardeners 490-series: Adhesives for production of laminated wood for

furniture

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