Specification of Glue Adhesive

Name: **Glue Adhesive** Code**: B100**

Glue Adhesive:

This glue is based on polyvinyl Acetate. Clear, firm and strong film of the glue is resistant to mechanical tensions. The specific formulation of the product is prepared for durable applications in such a way that the bonding sites have the ability of abrasion and are compatible with various varnishes.

Applications:

It is used in woodcraft for making all wooden structures. High penetration creates harmony between wooden cellulosic compounds and provides a tight junction.

Method of use:

The wooden surface should be clean of any dust. A uniform layer of A100 glue is applied on the surface and takes about 7-15 min. after required time, two surfaces should be stuck together with a homogenous compression.

Amount of use:

Depending on the type of work

Applied considerations:

Avoid adding water for carpentry works. Observe consumption ambient temperature (at least +5℃). Observe the time of bonding tow surfaces after being applied to the glue (for about 15 min).

Packaging:

0.5, 1, 4, 10, 20, 22 lit plastic containers.

Storage conditions:

There is shelf life of 6 months for initially packed containers in normal ambient conditions and when being away from thermal changes.

General Standard chart for all Glue Adhesive:

Row	Description	Acceptable change		
		Glue Adhesive For wet conditions	Glue Adhesive For normal humidity conditions	Glue Adhesive For dry conditions
1	Appearance	Milky white, uniform, free of any particles and cots	Milky white, uniform, free of any particles and cots	Milky white, uniform, free of any particles and cots
2	PH (25±5°C)	3-7	3-7	3-7
3	Poise	10	10	10
4	Solid content, weight percentage	38	30	30
5	Appearance of dry film	Uniform, free of any particles, transparent to milky white	Uniform, free of any particles, transparent to milky white	Uniform, free of any particles, transparent to milky white
6	Stability against frost	No change in adhesive properties after 3 freezing steps (10 ±2°C)	No change in adhesive properties after 2 freezing steps (10 ±2°C)	No change in adhesive properties after one freezing step (10 ±2°C)
7	Minimum film formation temperature	2Max	5Max	8Max
8	Smearing property	Shouldn't have a darker stain than standard	Shouldn't have a darker stain than standard	Shouldn't have a darker stain than standard
9	Adhesion strength Normal condition Wet condition Thermal condition	 100 60 40	 100 40 35	 70 0 35
10	Shelf life	Unchanged features up to 6 months after production		
11	Packaging	Accordance with standard		
12	Marking	Accordance with standard		

Laboratory testing Result:

- ADHESIVE STRENGTH:

Name of product	Glue Adhesive B100
Test method	INSO 3264(clause 7-8)
Lab condition	Temp: 23±2 (°c) & R.H: 35±5 (%)
Number of run	15
Result	
Test item	Test result
Adhesive strength- normal condition (Kg/cm^3)	105.25
Adhesive strength- after water immersion (Kg/cm^3)	61.12
Adhesive strength- after thermal aging (Kg/cm^3)	48.17

- MINMUM FILM FORMATION TEMPERATURE (MFFT):

Name of product	Glue Adhesive B100
Test method	INSO 3264(clause 7-7)
Specimen	Coated Glass Panel
DFT (µm)	120
Lab condition	Temp: 23±2 (°c) & R.H: 35±5 (%)
Number of run	3
Result	
Test item	Test result
MFFT (°c)	0

- VISCOSITY:

Name of product	Glue Adhesive B100
Test method	INSO 3264(clause 7-3)
Lab condition	Temp: 23±2 (°c) & R.H: 35±5 (%)
Number of run	3
Result	
Test item	Test result
Viscosity (Cp)	129000

- FREEZE- THAW RESISTANCE:

Name of product	Glue Adhesive B100
Test method	INSO 3264(clause 7-6)
Lab condition	Temp: 23±2 (°c) & R.H: 35±5 (%)
Result	
Test item	Test result
Freeze - thaw resistance	pass