



Product Information Sheet

PurGrip 712

Fast Set Liquid PUR

Chemical Composition:	Isocyanate pre-polymer
Application Temperature(s):	60°F
Color:	Beige
Freeze Thaw Stable:	YES
Min Use Temperature:	55°F
Shelf Life:	12 Months (see storage)
Solids (~):	100%
Specific Gravity (~):	1.11
Viscosity:	Approx. 6,000 mPa.s(cps)



Characteristics:

This is a fast reacting liquid, one-component polyurethane adhesive. It cures to a cross linked film with high modulus under the influence of moisture and humidity. Foaming of the adhesive during curing is normal and is caused by the chemical reaction. It is produced without the addition of solvents and formaldehyde.

Applications:

One-component polyurethane adhesive, for exterior wet use conditions under ASTM D 2559-00.

Directions:

Assembly time: Not to exceed 1 ½ minutes

Press time: 3 to 10 minutes depending on stress in assembly

Consistency: Free flowing

Flammability: Low

Chemical resistance: Resistant against acids, solvents and weak alkalis.

Processing guideline for end-joints (finger joints)

Preparation: This is a one-component adhesive and can be fed directly into suitable application equipment. Finger jointing machines have to be equipped with an appropriate application system. All machine parts that are in contact with the adhesive should be thoroughly treated with a typical release agent.

Wood Moisture Content: Moisture content at the joint surface should not be less than 8%, and not more than 16%, with minimal difference in moisture between the glued lumber parts.

Application of adhesive: Can be applied directly to the surface via squeeze bottle, as well as automatically applied in a continuous process by using an extrusion head or contact-free system. It is coated either on one or on both sides with a typical application rate amount of 150 to 250 g/m² (30 to 50 lb/1000sqft). Parts must be pressed together immediately.

Open Assembly time: Coated surfaces should be pressed together immediately but under no circumstances longer than 1.5 minutes after the application of the adhesive. Open time depends on the existing climatic conditions: Higher temperatures and humidity reduce open time. It is absolutely necessary that the adhesive still be tacky when pressure is exerted.

Pressure: Adequate sustained pressure for the construction is required. This is typically 50-125 psi for softwoods, and 75-200 psi for hardwoods.

Further processing: The bonded parts can be stacked and further processed in as little as 4 minutes.

Final bond: This is reached after approximately 12 hours. During this time period, the parts should be stored at a temperature of 20° C (70° F).

Clean Up:

For cleaning of equipment and work areas, wear protective gloves and protective goggles and remove as much uncured material as possible; then clean with Bio-act citrus cleaner, or industrial solvents such as



dibasic ester (DBE), Methyl Ethyl Ketone (MEK), or Xylene. For cured material, the use of chemical stripper is suggested. This material is moisture sensitive.

Storage: Close container when not in use. Always purge partially used containers with dry gas such as nitrogen to prevent moisture contamination, which could result in pressurized containers. Moisture contaminated materials cannot be recovered. Store in a tightly closed container in a cool, dry place. Shelf life is 6 months at approx. 20°C (70° F). Bottles can be stored up to 12 months under cool and dry conditions.

Safety:

See Material and Safety Data Sheet (MSDS) CP-0712. We strongly recommend the use of protective gloves when handling the material. Protective goggles should be worn if a splash hazard exists.

Certification and Registration: International Certifications and Registrations:

Formaldehyde Standard:

JAIA (Japan Adhesive Industry Association): Independent Control Standard against indoor Air Pollution.

Register Number: 007333

ASTM: This adhesive is approved according to ASTM D 2559 for use under exterior (wet use) exposure conditions.