



POLYVINE LIMITED
TECHNICAL INFORMATION

EXTRAMITE/POLYMITE
Weatherproof Wood Glue

DESCRIPTION

Powdered urea/formaldehyde resin glue that satisfies the requirements of BSEN 204 durability class D3 and BS EN 302-1 A3 type 11 adhesive if mixed in the proportions specified.

AREAS OF USE

General Joinery
Cabinet Work
Shop Fitting
Veneering

ADVANTAGES

Simple mix with water
Gap Filling
High Water Resistance
Interior or Exterior Use
Easy to Mix
Non-Staining
Mould Resistant
Stronger Bond Than The Wood Itself

MIXING

By Weight.

Use 2 parts of Extramite/Polymite powder to 1 part of cold water.

By Volume

Use 3.5 parts of Extramite/Polymite powder to 1 part of cold water.

NOTE: Mixing by weight is recommended for accurate and consistent glue mixes.

1. Put half the water in a container avoid copper, brass and ferrous metals.
2. Add Extramite/Polymite powder to water, stirring rapidly until the powder dissolves.
3. Add the remainder of the water, stirring until smooth. Any small lumps will quickly dissolve.

It is advisable to allow the mixture to stand after mixing to allow entrapped air to escape, bubbles or foam in a glue line can cause a weak bond. Extramite/Polymite is now ready for use. The mixture will remain usable for approx. 3 hours at 15°C

At higher temperatures the usable life is reduced and in hot weather it is advisable to mix only sufficient glue for immediate use (standing the mixing vessel in cold water will help prevent shortening of the usable life).

APPLICATION

Joints should be smooth and well fitted. Apply the glue using a stiff brush to one surface only.

Assemble and clamp (pin or screw) the joint whilst glue is wet.

Keep the joint under pressure until set (approx. 6 hours at 15°C)

A damp cloth can be used to remove excess wet adhesive.

NOTE: - At temperatures below 10C (50F), a period of up to 2 or 3 days may be required before the glue sets. During cold weather, it is therefore essential that joints under pressure be kept in a warm place.

Gel Time Guide:

20° C	30°C	70°C	100° C
1-2 Hr	30 Min	1.5 Min	33 Sec

Coverage should be 100 to 250 grams/sq. metre

NOTE: - If bonded wood is to be turned on a lathe it is recommend that the bonded wood is seasoned for a minimum of one week before turning.

BONDING TIPS

1 Ideally the moisture content of the substrates should be 9%±2% with no more than 3% difference between the two surfaces to be bonded, otherwise stresses are built into the joint, which may result in wood or joint fracture. If the wood is too damp, the dilution effect will weaken the adhesive performance.

2. Although the workshop conditions may be above 10C, wood brought in from unheated storage conditions may well be below this temperature and should be allowed to warm to above 10C before attempting to bond it.

3. Some species of oak can be particularly dense resulting in difficulties in the adhesive penetrating the surface. In such instances, the surface should be removed by sanding to open the pores of the timber and double spreading may prove necessary to ensure both surfaces have sufficiently "wetted" out.

4. Some timbers, and particularly maple can be over prepared by planeing the timber; this leaves a "glassy" surface, which is detrimental to the bonding process.

5. Oily timbers, such as teak, present problems with the "oils" inhibiting a satisfactory bond. Degreasing is normally required; this can be achieved by wiping the surface with washing up liquid. Sanding can also remove surface grease, but if the adhesive is not applied shortly afterwards there are likely to be problems of case hardening where the oils have surfaced again.

STORAGE

Store Extramite/Polymite in a cool dry place with the container tightly closed. Heat and moisture will cause the glue powder to become solid or insoluble. Claims for loss due to neglect of this warning cannot be accepted.

CLEANING OF CONTAINERS AND TOOLS

Wash down equipment with clean cold water before the glue sets. After the glue has set it becomes hard and difficult to remove. In particular, glue should not be allowed to harden on brushes or rollers.

HEALTH & SAFETY

Protect skin from contact with both unmixed powder and mixed adhesive. Mix in well ventilated area. Full data sheet available on request.

WARNING: The fully cured adhesive can only be removed by mechanical means (sawing, sanding etc).

Polyvine Ltd.
Severn Distribution Park
Sharpness
Berkeley
Glos.
GL13 9UQ
Tel 0845 017 1671
Fax 0845 017 1670
Email info@polyvine.co.uk
www.polyvine.co.uk

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SAFETY DATA SHEET

POLYMITE POWDER

Issued: 19/10/2006 Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: POLYMITE POWDER (Extramite/Cascamite)

Company name

Polyvine Ltd Severn Distribution Park Burma Road Sharpness Berkeley GL13 9UQ Telephone 0870 787 3710
Fax 0870 787 3709

2. COMPOSITION / INFORMATION ON INGREDIENTS

Contains: Condensate of Urea Formaldehyde blended with organic and inorganic filler.

3. HAZARDS IDENTIFICATION

Main hazards: No significant hazard.

Other hazards: May cause dermatitis when in contact with the skin of sensitive persons.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details.

Environmental precautions: Do not discharge into drains or rivers.

Clean-up procedures: Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Avoid the formation or spread of dust in the air.

Storage conditions: Store in cool, well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Powder

Colour: White

Odour: Characteristic odour

Solubility in water: Miscible

Melting point/range°C: 125

Flash point°C: >200

Autoflammability°C: 450

pH: 6-7

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION ADR / RID

UN no: Shipping name: Not classified as dangerous in the meaning of transport regulations.

IMDG / IMO UN no: IATA / ICAO UN no:

15. REGULATORY INFORMATION

Hazard symbols: No significant hazard. **Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.