



## TECHNICAL DATA SHEET

**PRODUCT:** **Cascamite**

### 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, Boat building, all external Joinery.

### 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 Cascamite powder to 1 part of cold water.

By Volume

Use 3.5 parts of Cascamite 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 Cascamite 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. Cascamite 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 10°C (50°F), 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 recommended 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  $9\% \pm 2\%$  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 10°C, wood brought in from unheated storage conditions may well be below this temperature and should be allowed to warm to above 10°C 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 Cascamite 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.

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

## **HEALTH & SAFETY**

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

Non-hazardous. Ensure good ventilation. Keep out of reach of children. Contact with eyes-wash immediately with warm water. Remove excess from tools and mixing vessels before washing in warm soapy water. Do not empty containers into drains or watercourses.

The information supplied herein is accurate to the best of our knowledge. Since conditions and methods are beyond our control, no warranty is expressed or implied. You are advised to access the suitability of the product on a test area before application

Further information may be obtained from:

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# SAFETY DATA SHEET

CASCAMITE POWDER

Issued: 19/12/2009 Revision No: 1

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

**Product name:** CASCAMITE POWDER

**Company name**

Polyvine Ltd Severn Distribution Park Burma Road Sharpness Berkeley GL13 9UQ Telephone 0845 017 1671  
Fax 0845 017 1670

## 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.