

TECHNICAL DATA SHEET

CONSTRUCTION CHEMICALS FASTFORM CASCAMITE **POWDERED ONE SHOT UREA FORMALDEHYDE RESIN WOOD ADHESIVE**

PRODUCT DESCRIPTION

Construction Chemicals Fastform Cascamite is a powder adhesive based upon urea formaldehyde resin. Construction Chemicals Fastform Cascamite is supplied in both bulk quantities and in unique single shot sachets to minimise wastage.

AREAS OF USE

- General joinery
- Cabinet work
- Shop fitting
- Veneering
- Boat building

ADVANTAGES

- Simple mixing with water
- Gap filling
- High water resistance
- Interior or exterior use
- Easy to mix
- Reduced wastage
- Non-staining
- Mould resistant
- Stronger bond than the wood itself

APPLICATION

Choice of Grades

Construction Chemicals Fastform Cascamite is available in two grades. The choice of grade will depend on ambient temperatures.

Gel Time Guide	20°C	30°C	70°C	100°C
Grade W	1 – 2 hours	30 minutes	1.5 minutes	33 seconds
Grade S	3.5 – 4.5 hours	90 minutes	3.5 minutes	40 seconds

Mixing

Mixing can be done by either weight or volume. Mixing by weight will give the most accurate and consistent glue mixes. If mixing by weight, mix 2 parts of Construction Chemicals Fastform Cascamite to 1 part of cold water.

If mixing by volume, then 3.5 measures of Construction Chemicals Fastform Cascamite are required to 1 measure of cold water. For both methods, mix as follows:

1. Put half the cold water into a non-metallic mixing vessel.
2. Add all the Construction Chemicals Fastform Cascamite powder and stir until dissolved.
3. Add all the remaining water and stir until the mixture is smooth.

The mix is then ready to use. The mixed material will remain usable for approximately 3 hours at 15°C.

Placement

- Use a stiff brush to apply the mixed adhesive to one surface only.
- Assemble and clamp (pin or screw) the joint whilst the glue is wet.
- Keep the joint under pressure until set (approximately 6 hours at 15°C).
- A damp cloth can be used to remove excess wet adhesive.

Cleaning of Tools

Tools and equipment may be cleaned using clean cold water before the adhesive has hardened.

COVERAGE

100-250 grams/square metre

PACKAGING

2.5 kg (containing 50 sachets) and 25 kg

TECHNICAL DATA

Specification Type

BS EN 204 Durability Class D3

BS EN 302-1 A3 Type 11

Appearance

White coloured powder

Viscosity of Standard Mix

50P (Brookfield RVF, Spindle 3, 10 rpm)

Storage Life

1 year under cool dry conditions

HEALTH AND SAFETY

Protect skin from contact with both unmixed powder and mixed adhesive. Mix in well-ventilated area. Full Health and Safety Data Sheet available on request.

HEALTH & SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

FASTFORM CASCAMITE

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Rothley
Leicester
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Tel: 0116 2301955 Fax: 0116 2301944

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical characterisation : Urea Formaldehyde Resin

Ingredients contains:	CAS/Registry No	
Material description	% Content	
50-00-0	Formaldehyde	<0.1
	Urea-Formaldehyde Polymer	90-96
	Inorganic salt	1-4

3. POTENTIAL HAZARDS

Main hazards. Not regarded as a health hazard under current Legislation.

4. FIRST AID MEASURES

Eye contact: Immediately flush with water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contacts the entire surface of eyes and lids. Seek immediate medical attention.

Skin contact : Wash affected area with soap and water for 15 minutes. Remove contaminated clothing. In cases of prolonged irritation, seek medical advice.

Inhalation : If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advice
Ingestion attention: If swallowed, give large volumes of milk. Do not induce vomiting, seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Vapourising liquid type, powder, foam or CO₂, Water spray fog or mist. Very low risk of fire.

Hazardous Decomposition Products

High temperatures generate carbon dioxide (CO₂), carbon monoxide (CO)

6. ACCIDENTAL RELEASE MEASURES

Major spills: Shovel into suitable dry containers and re-use if possible. Flush the area with water. Ensure residue does not gain access to watercourses.

7. HANDLING & STORAGE

7.1: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Use in well ventilated areas and avoid breathing of dust. Use an approved respirator if air is contaminated above acceptable levels.

When blended with water, the concentration of free formaldehyde of the reconstituted resin will increase to a value of 1 to 2 percent (w/w).

The reconstituted product must therefore be considered to be Harmful for Supply, with the following risk phrases ' Possible risk of irreversible effect and May cause sensitisation by skin contact. Safety phrases as used in Section 15 should also be used.

Care must be taken when opening containers due to a small build up of formaldehyde gas. 7.2 Store away from food and other ingredients.

Store in cool, dry conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls.

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimise employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programmes are adequate.

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and airflow patterns should be provided to keep air contaminant concentrations below acceptable levels. Refer to section 2 Composition/Information on Ingredients which details specific exposure limits where applicable.

Personal Protection : Wear synthetic protective clothing (aprons and boots) if contact is likely. Where air contamination can exceed acceptable criteria, use approved respiratory protection equipment. Respirators should be chosen based upon the form and concentration of the air contaminants. Use goggles and face shield if contact is likely. Wear gloves as required to prevent skin contact.

9. PHYSICAL & CHEMICAL PROPERTIES

Form . Powder, dust.
Colour : White

10. STABILITY & REACTIVITY

Avoid contact with acids

Hazardous Decomposition: High temperatures generate carbon dioxide (CO₂), carbon monoxide (CO).

Materials to be avoided: Acids

11. INFORMATION ON TOXICITY

Toxic Dose 1 – LD50 >5000mg/kg (oral rat)

Toxic Conc – LC50 no available data

This chemical has good warning properties. Irritant of eyes and mucous membrane.

Acute and Chronic Health Hazards – Mild dermatitis and allergic skin rash

In the EEC formaldehyde is classified as a Category 3 Carcinogen. This means that formaldehyde is not known to be carcinogenic to man (category 1) or regarded to be carcinogenic to man (category 2). Although at high concentrations, formaldehyde has been shown to cause cancer in rats, there is not convincing evidence that the substance induces cancer in man. For this reason formaldehyde has been placed in the lowest category 3.

12. INFORMATION ON ECOLOGICAL EFFECTS

Ecological effects information: Urea-Formaldehyde polymer is slowly but not readily biodegradable. TOC removal 28 days 61% BOD₂₈;0.62 mg/mg substance. Nitrification 28 days; 0.45 mg NO₃-N/mg substance. Formaldehyde; No bioconcentration. Biodegradation; BOD₅,COD;0.68 (readily biodegradable).

Other information: Do not discharge product into drains and sewers.
Urea formaldehyde polymer – very low fish toxicity, no inhibition of activated sludge at 140 mg/l suspended solids.

13. DISPOSAL

Disposal: Dispose according to local regulations.

14. TRANSPORT

No transport warning sign required.

15. REGULATIONS

Label information: Not classified

Risk Phrases – Not classified

Safety Phrases - S22 Do not breathe dust

S24 Avoid contact with skin

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S44 If you feel unwell, seek medical advice (show label if possible)

16. FURTHER INFORMATION

This product should be used as directed by Construction Chemicals. For further information consult the application data sheet or contact Technical Service Department.

This Safety Data Sheet was compiled using the current ~ information supplied by the distributors of the component materials. This Safety Data Sheet, in the CHIP format, supersedes all previous issues, and users are cautioned to ensure it is current. Destroy all previous data sheets, and if in any doubt, contact Construction Chemicals.