



STYCCOBOND F33

Rapid Set Polyurethane Adhesive

PRODUCT DATA

INTRODUCTION

STYCCOBOND F33 is a rapid set, high strength, single component moisture curing polyurethane adhesive. It is non-flammable and is suitable for use over normal underfloor heating installations.

STYCCOBOND F33 can be used for securing wood blocks, carpet grippers, aluminium and PVC-U nosings, dado rails and wooden skirting.

STYCCOBOND F33 can be applied to STOPGAP smoothing underlayments, structurally sound, smooth, dry subfloors of concrete and sand/cement screed and flooring grade plywood.

STOPGAP Waterproof Surface Membranes, sound flooring grade asphalt and other non-absorbent surfaces must be skimmed with a minimum of 3mm of the appropriate STOPGAP smoothing underlayment.

Aluminium and PVC-U nosings should only be bonded to absorbent surfaces.

For details on other surfaces, contact our Technical Service Department.



FEATURES

- Rapid setting
- High strength
- Provides a Fast-Track system for the installation of wood
- Non-flammable
- Suitable for absorbent and non-absorbent surfaces
- Clean cartridge application

STANDARDS

Conditions must comply with the relevant British Standard.

PACKAGES

310ml cartridge
12 cartridges per carton

TECHNICAL INFORMATION

Colour	Yellow / Opaque
Consistency	Thick Paste
Coverage Rate (Approx.)	40 linear metres of 25mm carpet gripper per cartridge
Open Time	Up to 10 minutes depending on temperature, humidity and absorbency of substrate

HOW MUCH MATERIAL?

PACK SIZE	BEAD DIAMETER	COVERAGE PER UNIT
310ml	5mm	40 linear metres

Note: Coverage rates will depend on the condition and absorbency of the subfloor.

SURFACE PREPARATION

Proper surface preparation is essential. Substrates must be sound, smooth, dry (<65% RH when installing wood or <75% when installing grippers and nosings) and free from laitance and any contaminants which will affect adhesion. Use STYCCOCLEAN C140 for removing grease, oil, polish, soap etc. from non-absorbent substrates. Where surface smoothing is required use STOPGAP smoothing underlayments. Metal surfaces must be abraded to remove scale and provide a key. The underside of metal nosings should be cleaned with STYCCOCLEAN SOLVENT.

For detailed information, request the F. Ball Subfloor Preparation Guide.

APPLICATION

Fit the cartridge in the gun and cut off the seal.

For wooden blocks, apply a bead of adhesive and press firmly in position.

For grippers, nosings, dado rails and wooden skirting place in position and mark along the edges as a guide for the adhesive application. Apply a bead approximately 10mm inside each guide line and, for nosings, along the angle edge of the step. Apply further beads, according to the width, e.g. 50mm=3 beads, 75mm=4 beads etc.

Note: When fixing vertically, the assembly must be mechanically secured until the adhesive has set.

CURE TIME

Since the adhesive is moisture curing, the cure time is dependent on the level of humidity contained within the subfloor or the surface being bonded to.

When fitting carpet grippers, porous subfloors normally contain sufficient moisture to enable the carpet to be fitted after 1 hour.

On non-absorbent surfaces, the adhesive will take 2 hours to set sufficiently for the carpet to be fitted.

These cure times would also be similar when fitting wood blocks.

PRECAUTIONS

Aluminium and PVC-U nosings should also be mechanically secured.

Aluminium nosings should be abraded to provide a key for the adhesive. Always use pre-cut hole in nozzle.

Trafficking on stairs should be prevented until STYCCOBOND F33 used to fix the nosings has fully cured.

Any spillage must be immediately removed.

TOOLS

Applicator Gun.

STORAGE

Store between 5°C and 30°C.
Protect from frost.

SHELF LIFE

12 months in unopened containers stored under good conditions.

HEALTH AND SAFETY ADVICE

This product is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. Obtain the relevant Material Safety Data Sheets and follow the advice given. These can be found at www.f-ball.co.uk alternatively these can be obtained from the point of purchase or from F. Ball and Co. Ltd. at the address below.

Site conditions vary, to ensure this product is suitable and to confirm this data sheet is current please contact our Technical Services Department.

For further information about F. Ball products or more detailed technical assistance, please contact:



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SAFETY DATA SHEET STYCCOBOND F33

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

PRODUCT NAME STYCCOBOND F33

INTERNAL ID SBF33/6

APPLICATION Cartridge Dispensed Adhesive.

SUPPLIER F.Ball and Co.Ltd.,
Churnetside Business Park,
Station Road.,
Cheddleton,
Staffordshire ST13 7RS
For technical and non-emergency call:
phone: 01538 361633.
For advice on medical emergencies,
fires, spillages or chemical hazards
phone: +44(0) 870 190 6777
Fax: 01538 361622
E-Mail: mail@f-ball.co.uk

2 HAZARDS IDENTIFICATION

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitisation by inhalation and skin contact.

CLASSIFICATION Xn;R20. R42/43. Xi;R36/37/38.

ENVIRONMENT

In the presence of water the product hardens to a solid mass which is not biodegradable.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	202-966-0	101-68-8	50-70%	Xn;R20 R42/43 Xi;R36/37/38

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Gunnable moisture -curing polyurethane adhesive containing isocyanate.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention.

INGESTION

Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Immediately rinse with water. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

SPECIFIC HAZARDS

By fire, toxic gases may be formed (COx, NOx). Hydrogen cyanide (HCN).

STYCCOBOND F33**PROTECTIVE MEASURES IN FIRE**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Use protective gloves, goggles and suitable protective clothing. Avoid contact with skin and eyes. In case of inadequate ventilation, use respiratory protection.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Dam and absorb spillage with damp sand, sawdust or other suitable absorbent material Transfer to a container for disposal. Do not close container tightly. Risk of excess pressure build-up. Keep damp in a safe well ventilated area for several days

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid contact with skin and eyes. Avoid inhalation of vapours. Provide good ventilation.

STORAGE PRECAUTIONS

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in a cool, dry, well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

In the case of hypersensitivity of the respiratory tract (eg asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with this product. In case of inadequate ventilation use a respirator suitable for organic vapours. Consult respirator manufacturer for specific advice.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. Nitrile gloves to BSEN374 are recommended. Break through times can vary depending on thickness, use and source. Change gloves regularly.

EYE PROTECTION

If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

When using do not eat, drink or smoke. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

PERSONAL PROTECTION

Always check applicability with your supplier of protective equipment.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous Paste		
ODOUR	Slight odour		
SOLUBILITY	Insoluble in water		
RELATIVE DENSITY	1.1 Approx	FLASH POINT (°C)	>200

10 STABILITY AND REACTIVITY**STABILITY**

Stable under the prescribed storage conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Amines. Alcohols, glycols. Reacts with water forming carbon dioxide. Risk of bursting owing to increased pressure in closed containers.

STYCCOBOND F33**HAZARDOUS DECOMPOSITION PRODUCTS**

During fire, toxic gases (CO, CO₂, NO_x) are formed.

11 TOXICOLOGICAL INFORMATION**GENERAL INFORMATION**

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

INHALATION

Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing. May cause sensitisation by inhalation.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

May cause sensitisation by skin contact.

EYE CONTACT

Irritation of eyes and mucous membranes.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product should not be allowed to enter drains, sewers or watercourses.

DEGRADABILITY

The product reacts with water to form a solid insoluble reaction product which is non-degradable, according to information available.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Should be disposed of as hazardous waste via a licensed waste operator.

WASTE CLASS

Hazardous Waste Code for Product : 080501* ; Contaminated empty container: 150110*

14 TRANSPORT INFORMATION**GENERAL**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

ADR CLASS

Not classified for transportation. MARINE POLLUTANT No.

15 REGULATORY INFORMATION**LABELLING**

Harmful

CONTAINS

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

RISK PHRASES

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.

SAFETY PHRASES

S24/25	Avoid contact with skin and eyes.
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.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.

STYCCOBOND F33

S60	This material and its container must be disposed of as hazardous waste.
P4	Contains isocyanates. See information supplied by the manufacturer.

16 OTHER INFORMATION

GENERAL INFORMATION

F.Ball and Company Ltd Technical Datasheet.

INFORMATION SOURCES

Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits.

REVISION COMMENTS

Section 15 Update. Section 2 and Section 3 order reversed.

REVISION DATE 14/11/08

REV. NO./REPL. SDS GENERATED 6

RISK PHRASES IN FULL

R20	Harmful by inhalation.
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