



Flexible Roofing Membrane (FRM)

DESCRIPTION

Richco Flexible Roofing Membrane (FRM) is a high solids, liquid applied roofing coating, which provides a seamless, flexible waterproofing system.

Richco FRM cures by reaction with atmospheric moisture to produce a flexible, elastomeric membrane with good adhesion to a variety of substrates. It is cold applied by brush, roller or airless spray and contains no tar, therefore presents minimal hazard in use.

INTENDED USES

Richco FRM can be used as a solar-reflective/ waterproofing membrane on most roofing substrates including; roofing felt, asphalt & bitumen, corrugated asbestos sheet, slates, tiles, concrete, brick, wood, glass, ferrous metals, lead and copper.

APPEARANCE

Three grades of Richco FRM are available - Black, Aluminium (solar reflective) or Grey.

THICKNESS

The minimum membrane thickness should be 1.0mm. This is achieved by applying 2 coats at 0.5mm (ensuring the second coat is applied within 24hrs). Alternatively one coat can be applied at 1.0mm.

SURFACE PREPARATION

Proper preparation must be carried out to ensure that the substrate is clean, dry and free of loose and friable material.

PRIMING

Porous substrates must be primed / sealed with Richco Roofing Primer.

APPLICATION TECHNIQUE

Richco FRM can be applied by brush, roller or airless spray.

NOTE: stir before using.

OVERCOATING INTERVAL

If two coats of Richco FRM are applied, please ensure the second coat is applied within 24hrs of application - to ensure good inter-coat adhesion. If the recoat time is exceeded, the cured membrane must be primed with Richco Roofing Primer before recoating.

PACKAGING

Richco FRM is available in 20kg and 5kg units.

STORAGE

Richco FRM should be stored in a covered area above 5°C and below 30°C. and will have a shelf life of at least six months under these conditions.

TRANSPORTATION

Richco FRM is classified as harmful for use but is not considered hazardous for transportation.

TECHNICAL DATA

Colour	Black	Aluminium	Grey
Viscosity @ 25°C (cps)	5000-9000	5000-9000	5000-9000
Specific Gravity	1.25	1.25	1.25
Tensile Strength (N/mm ²)*	3	2	2.5
Elongation (%)*	450	350	450

*after 5 days at 20°C - properties will improve up to 28 days after application

HEALTH AND SAFETY

Good standards of industrial hygiene should be observed when handling all components. The use of protective gloves is highly recommended and users should consider the use of goggles if splashing during use is a possibility.

Please read specific health and safety data sheet for this product.

TECHNICAL ADVICE

For further information on this or any other Richco product, please contact us on: 01268 495730.

DISCLAIMER

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied him/herself independently as to the suitability of our products for his/her own particular purpose. In no event shall Richco Limited be liable for consequential or incidental damages.



Flexible Roofing Membrane (FRM)

1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Richco FRM
 SUPPLIER: Richco Ltd
 TEL: 01268 495730

2) HAZARDS IDENTIFICATION

May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

3) FIRST AID MEASURES

GENERAL: If you feel unwell, seek medical advice (show the label where possible). Keep the affected person warm and at rest. Remove contaminated clothing. Wash all contaminated clothing before reuse.

INHALATION: Move the exposed person to fresh air. Seek medical attention.

INGESTION: DO NOT INDUCE VOMITING! Drink 1 to 2 glasses of water. Seek medical attention.

SKIN: Wash off immediately with plenty of soap and water. Remove contaminated clothing.

EYES: Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

4) FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media appropriate to the surrounding fire conditions.

PROTECTIVE EQUIPMENT:
 Wear: Self contained breathing apparatus.

5) ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
 Ensure adequate ventilation of the working area. Keep personnel away from spill. Evacuate personnel to a safe area.

ENVIRONMENTAL PRECAUTIONS:
 Do not allow product to enter drains.

CLEAN UP METHODS:
 Clean spillage area thoroughly with plenty of water. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.

6) HANDLING AND STORAGE

HANDLING	Wear suitable protective equipment. Do not breathe gas/fumes/vapour/spray. Use in a well ventilated area.
STORAGE	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7) EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES: Ensure adequate ventilation of the working area.

RESPIRATORY PROTECTION: Wear: Suitable respiratory equipment. Wear: Self-contained breathing apparatus.

HAND PROTECTION: Chemical resistant gloves (PVC).

EYE PROTECTION: Approved safety goggles. Avoid contact with eyes.

PROTECTIVE EQUIPMENT: Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing. Apron (Plastic or Rubber). Rubber boots.

8) PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION	Liquid
FLASH POING	56° C
WEAR SOLUTBILITY	Slightly soluble in water. Soluble in alcohol & ether.

9) STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions.
CONDITIONS TO AVOID	Heat, sparks and open flames
MATERIALS TO AVOID	Oxidising agents
HAZARDOUS DECOMPOSITION PRODUCTS	None.

10) TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Harmful if swallowed
CORROSIVITY	May cause irritation to skin
REPEATED OR PROLONGED EXPOSURE	Prolonged or repeated exposure may cause irritation to skin and mucous membranes

11) ECOLOGICAL INFORMATION

ECOTOXICITY: No data is available on this product.

12) DISPOSAL CONSIDERATIONS

FURTHER INFORMATION: Can be incinerated if in compliance with local and nation regulations. Dispose of in compliance with all local and national regulations.



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DISPOSAL OF PACKAGING: Empty containers can be sent for disposal or recycling.

13) TRANSPORT INFORMATION

LABELLING	The product is classified in accordance with 67/548/EEC
SYMBOLS	Xn - Harmful

14) REGULATORY INFORMATION

RISK PHRASES: Not Classified

SAFETY PHRASES:

P-4	Contains isocyanates. See information supplied by the manufacturer.
S-24	Avoid contact with skin.
S-37	Wear suitable gloves
s-62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

RISK PHRASES:

R-43	May cause sensitisation by skin contact
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R-65	Harmful: may cause lung damage if swallowed.

17) EXPOSURE LIMITS

Xylene, O-,m-, -p-or mixed isomers	WEL 8-hr limit ppm: 50	WEL 8hr limit mg/m ³ :220
	WEL 15 min limit ppm:100	WEL 15min limited mg/m ³ :441

18) COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CONC.	CAS No	EINECS	RISK (R No)
XYLENE	1-10%	1330-20-7	215-535-7	xN, R20/21-38
1,2,4 - Trimethylbenzene	1-10%	95-63-6	202-436-9	R10 Xn; R20 Xi; R36 Xi; R37 Xi; R38 N; R51-53
Solvent Naphtha (petroleum), Light Aromatic	10-20%	64742-95-6		R10 N; R51-53 Xn; R65 Xi;R66 R67

15) OTHER INFORMATION

R-PHRASES (Full Text):

R-10	Flammable
R-20	Harmful by inhalation
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
R51-53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

16) FURTHER INFORMATION

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct and to the best of our knowledge.