

Corroprufe 1500FG

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Fibre-glass reinforced, self adhesive, bituminous sheet waterproofing membrane

Product Features

Corroprufe 1500FG is a 1.5 mm thick, heavy duty, self adhesive sheet waterproofing membrane, consisting of a high quality rot proof fibre-glass reinforcement core with highly adhesive polymer modified bitumen either side, laminated with a high density polyethylene sheet and a silicon coated release paper protection layer on the adhesive side.

Corroprufe 1500FG comes in pre-formed 1 m x 15 m rolls and features a pre-formed, self adhesive selvedge with release paper along its length, to provide better waterproofing continuity at overlaps with adjacent rolls.

Corroprufe 1500FG requires associated primers and protection boards to provide a complete waterproofing system to both horizontal & vertical surfaces.

Typical Uses

Corroprufe 1500FG is typically used to waterproof concrete & masonry sub-structures such as basements, water retaining structures, retaining walls and foundations, but is also used to waterproof podium decks, buried roofs and planters.

Technical Data		
Properties	Test Standards	Typical Values
Softening point		: 110°C
Elongation at break	ASTM D 382-97	: 138.05%
Tensile strength (film)		: 26 N/mm ²
Adhesion strength primed substrate self		: 2.2 N/mm ² : 3.8 N/mm ²
Puncture resistance		: 310 N
Water absorption 72 hours @ 23°C		: 0.16%
Crack bridging		: 0.9 mm
Water penetration	DIN 1048	: pass
Tear resistance (L/T)	ASTM D 1004 - 94a	: Long 330 N/mm Trans 400 N/mm

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Concrete

Long term durability and function can only be achieved with good preparation to give a strong adhesive bond to the substrate.

Ensure the concrete surfaces where the waterproofing membrane will be placed have no sharp protrusions, are dry, smooth, clean and free from contamination such as dust, oil, grease & organic growth.

For terminations vertically, we recommended forming a groove

in the fresh concrete using a suitable timber strip fixed to the shuttering, in which to terminate the membrane. After the concrete has hardened, remove the strip to reveal the groove in which the membrane can sit.

All external 90° corners should be chamfered to take away sharp edges, and all 90° internal corners should be filleted with a good quality sand / cement mortar.

Priming

Prior to the application of **Corroprufe 1500FG**, prime the prepared concrete surface using **Corroprime SB** a solvent based bituminous primer, at a theoretical coverage rate of 4 – 6 m² per litre. Allow the primer to become touch dry before applying the membrane.

A second priming coat may be required if the substrate is particularly porous.

Re-prime if the primer coat has not been over coated within 24 hours.

Surface contamination, stones & debris must be removed prior to the subsequent application of **Corroprufe 1500FG**.

Application

Horizontal surfaces

Cut the membrane to the desired length and shape, allowing for a 50 mm side lap & 100 mm end lap on the rolls.

Place the membrane on the area to be covered and check the pieces match as required on the substrate.

Re-roll the membrane for about half the length without changing its orientation, then peeling off the underside release film, slowly unroll and carefully place the membrane on the primed surface.

Smooth the membrane onto the substrate from the centre to the sides using a solid roller to ensure a good bond to the primer, and removal of any entrapped air.

DO NOT REMOVE THE RELEASE PAPER FROM THE TOP SELVEDGE UNTIL READY TO OVERLAP WITH THE NEXT ROLL.

Subsequent rolls should be laid in a similar fashion, overlapping by 50 mm along the side selvedge & 100 mm at the ends of the rolls, to provide a continuous waterproofing membrane.

REMOVE THE RELEASE PAPER FROM THE SELVEDGE OF THE PREVIOUS ROLL ONLY AS THE SUBSEQUENT ROLLS ARE UNROLLED TO MINIMISE THE RISK OF CONTAMINATION BETWEEN THE JOINT.

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Roll all overlaps to ensure full contact between rolls & the primer.

Continue to waterproof the entire area, extending by a minimum of 250 mm beyond the building line in order to create an overlap with the vertical membrane.

It is essential that the membrane is protected from traffic & UV light as soon as possible after application using either **Corroboard** protection board, or a sand / cement protective screed.

Vertical Surfaces

Apply a 45° sand / cement fillet at floor / wall junctions and allow to cure.

A 200 mm wide reinforcing strip should be provided at all corners and changes in direction such as floor / wall junctions, prior to the main membrane application.

Apply the membrane vertically in the same fashion as for horizontal, however always waterproof from the lowest to the highest point, allowing for an overlap of 100 mm on end joints giving a weathered lap.

Press the membrane onto the substrate from the centre to the sides, to ensure a good bond to the primer and removal of any entrapped air. Roll all overlaps to ensure full contact with the primer.

Subsequent rolls should again be overlapped by 50 mm along the sides using the selvage.

Continue applying until the entire area is covered.

If using a contact adhesive, it is likely that the board will need to be supported or held in place whilst the adhesive sets.

It is recommended the membrane be terminated into a DPC or pre formed groove and sealed with a bitumen based mastic such as **Corroseal RB**.

It is essential that the vertical membrane once applied is immediately protected from back filling & UV light using **Corroboard** protection board, fixed in place using 100 mm x 100 mm double-sided self adhesive patches, or a contact adhesive spread evenly onto the board and pressed firmly against the membrane.

If using a contact adhesive, it is likely that the board will need to be supported or held in place whilst the adhesive sets.

Detailing

Internal & external corner pieces can be created with a 300 mm x 300 mm square piece of membrane folded into quarters and cut along one of the fold lines from the centre to the edge, then folded in or out to create an internal or external corner piece.

Pipe penetrations can be created using a combination of a large square patch that is star cut in the middle to allow application over the pipe, followed by a reinforcing strip folded in half along its length and cut into tassels along the length of one half, that is then wrapped around the pipe and bonded to the substrate to create a sleeve.

During the membrane application, any small gaps particularly around detailing must be filled using **Corroseal RB**.

Place a small reinforcing patch on top of the membrane where any small stones are found trapped under the membrane.

Repairs

Any damaged areas of **Corroprufe 1500FG** must be repaired using a patch of new material cut to provide a minimum overlap of 100 mm in all directions of the damaged area.

Hot weather conditions

For application above 40°C we recommend adopting the following guidelines:

Store materials in a cool preferably air conditioned environment.

Minimise exposure to direct sunlight.

Avoid application during the hottest time of day.

Keep membrane rolls stored upright particularly if not boxed.

Cleaning

Clean tools and equipment immediately after use with **Corroclean**.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

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Estimating

Corroprufe 1500FG pack size: 1 m x 20 m roll. Coverage rate 20 m² per roll excluding laps

Corroprime SB pack size: 200 litre drums. Coverage rate approximately 4 - 6 m² per litre

Corroboard pack size: 1 m x 2 m board. Coverage rate 2 m² per board

Corroseal RB pack size: 20 litre pail. Coverage rate per pack approximately 200LM @ 10 mm x 10 mm

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corroprufe 1500FG has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.