

CP683

POWERply UNDERLAY - SA



KEY BENEFITS SUMMARY

- Flame free, self-adhesive application
- Excellent low temperature flexibility at -25°C
- Tough 200g/m² reinforcement
- SBS modified bitumen
- Versatile, long-lasting material
- Integrated 'safe-seal' laps to enable homogenous, efficient sealing of side laps

PRODUCT INFORMATION

Description

CP683 is a cold-applied, self-adhesive bituminous underlay which is saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. It has a tough 200 g/m² glass fibre reinforcement and is manufactured with a single layer release film on its underside. In addition, the product features integrated 'safe-seal' lap technology, facilitating secure, safe and efficient sealing of side-laps.

Usage / Purpose

CP683 is designed for use as a high performance underlay membrane, and is ideal for use within cold applied roofing systems. Compatible with a wide range of substrates, the product is typically used within CPG Europe's self-adhesive or torch-safe specifications and is compatible with CP686 self-adhesive cap sheet.

Colour

Dark Grey

Packaging

1.08 m x 7.5 m x 3.0 mm roll

Availability

Direct from Tremco CPG UK Limited (see bottom of leaflet for address and telephone details).

Application

- CP683 should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217: 2005 – the code of practice for reinforced bitumen membranes for roofing.
- Roofing contractors should also be fully conversant with the guidelines set out in the National Federation of Roofing Contractors (NFRC) 'Safe2Torch' campaign. If hot air guns are used during application, operatives should be competent, conversant and capable of using such items in a safe and responsible manner. Care must also be taken when using hot air guns in close proximity to combustible materials, decorative coatings and heat sensitive materials.

Preparation

- In order to install CP683 underlay correctly, ensure that the surface is dry, free of oil, fat and dust and other impurities.
- All substrates and detailing areas should be primed to ensure an adequate bond is achieved.
- Ambient and surface temperature should be at least +5°C.
- Insulation to be approved as suitable for use with self-adhesive underlayer - refer to Tremco specification at all times.
- We recommend that self-adhesive underlays such as CP683 are rolled into position and allowed to settle prior to their application.
- The underlay should always be installed with a minimum 80 mm side joint overlap and 100 mm end lap.
- Ambient and surface temperatures during the application should be at least + 5°C.

Installing the Membrane

- CP683 is applied by pulling off the bottom separating film while simultaneously rolling out the sheet.
- The release film should be removed by hand and disposed of responsibly to prevent it blowing across the roof.
- Any overlapping underlay at a t-joint connection must have a diagonal cut over the width of the overlapping.
- The diagonal sheet edge must be cut off with a knife at approximately 45°.
- During the application of CP683 we recommend using a weighted roll bar or tube in order to help provide a uniform, strong bond.
- After application, the installed underlay should be rolled again to remove any entrapped air and further consolidate the bond with the substrate.
- Following the application of CP683 within a multi-layered roofing system, a suitable cap sheet (e.g. CP686) must be installed immediately.
- If it is not possible to apply the next layer immediately, then the overlaps of the CP683 underlay must be

thermally activated and pressed down thoroughly. When using the underlay as part of a temporary or provisional roof construction the joint overlap must be thermally activated (e.g. with hot gas or hot air).

Safe-Seal Lap Methodology

- The product's 80 mm wide side selvedge consists of two key elements:
 - The first 40 mm of selvedge (the inner element) features a self-adhesive release film which, once removed, enables the adjacent underlay to be securely bonded without the need for heat – only a pressure roller is required.
 - The outer 40 mm of the selvedge is then bonded in a traditional manner using either hot air or naked flame, depending on the type of system being installed.
- This 'safe-seal' lap technology not only dramatically reduces the risk of any naked flame or heat penetrating through to a potentially combustible substrate (e.g. insulation), it also allows for more efficient installation as only half of the selvedge needs to be manually welded using a hot air gun or torch.
- Any overlaps on the mineral chippings must be sealed with a hot air blow dryer (>3000 W). All joint overlaps should be unrolled with a draw roll.
- During installation it is important to ensure that a visible bead of bitumen exudes from all side and end laps. In addition, all end joint overlaps must be at least 100 mm.

Installation Note

Please refer to Tremco Specification & Installation Guide for advice at all times.

Storage

- The performance of self-adhesive underlays can be compromised if they are stored incorrectly.
- In general terms, self-adhesive underlays should be stored in a cool, dry place and protected from direct sunlight.

TECHNICAL DATA

PROPERTY	TEST METHOD	RESULT
Length	DIN EN 1848-1	≥ 7.50 m
Width	DIN EN 1848-1	≥ 1.08 m
Straightness	DIN EN 1848-1	< 20 mm/10 m
Mass per Unit Area	DIN EN 1848-1	4.4 (± 5%) kg/m ²
Thickness	DIN EN 1848-1	3.0 (± 2%) mm
Water Tightness	DIN EN 1928 Method B	passed
Tensile Properties: Maximum Tensile Force	DIN EN 12311-1	≥ 1000/1000 N
Tensile Properties: Elongation	DIN EN 12311-1	≥ 2/2%
Resistance to Thermal Distortion	DIN EN 12311-1	≥ +100°C
Flexibility at Low Temperatures	DIN EN 1109	≤ -25°C
Storage	Store in a cool, dry place and protect from direct sunlight	
Shelf Life	24 months when stored as recommended	

- CP683 should never be stored on any roofs where the temperature is expected to drop to 5°C or less. If this is not the case there may be installation issues, with shrinkage/ruckling of the underlay potentially occurring as the temperature rises.
- It is equally important not to store the rolls in direct sunlight, as this can activate the tack within the self-adhesive coating, making it difficult to remove the release film during application.
- The product should also be installed within 3 months of delivery, otherwise the surface must be primed with a suitable primer (please contact CPG Europe for further details).

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Health & Safety Precautions

Safety data sheets must be read and understood before use.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.