Datasheet

SOLCOURSE 3S DPC

Commercial Grade Polymeric DPC

Solcourse 3S is a commercial grade polymeric DPC specially formulated for buildings up to and including 3 storeys.

- **CE Marked.**
- **Specifically designed for housing & commercial applications.**
- **No extrusion under heavy loads.**
- **Superior performance to traditional British Standard DPCs.**
- **Solcourse Standard & bespoke preformed cloaks available.**
- **Compliant to NHBC Standards 2019.**

Colour	Product Code	Roll Size
Black	SOLCOURSE3SDPC	100mm - 900mm

CE TYPE A EN 14909

BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE 12/4907

SOLCOURSE - DPC / DPM Systems

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Product Description

Suitable for use as a horizontal, vertical or stepped DPC (including cavity tray), in either solid or cavity walls of brick, block, stone or concrete.

Ideal for damp proofing solid/cavity walls in brick, block, stonework or concrete Solcourse 3S uses the same proven production technology as Solcourse High Performance DPC.

Solcourse 3S is Bitumen free and it has excellent all round physical properties and does not become stiff and brittle at low temperatures.

The strength and flexibility of Solcourse 3S means that even in very low temperatures it will not suffer from cracking when folded or unrolled.

Solcourse 3S will workable and can be cut and trimmed without difficulty.
In addition to its outstanding low temperature flexibility, Solcourse 3S has the proven Solcourse waterproof barrier properties expected of a high performance polymeric DPC.

Features & Benefits

- Specifically designed for housing & commercial applications.
- BBA Agrement Certified (12/4907).
- No extrusion under heavy loads.
- Offers vastly superior performance to traditional British Standard DPCs.
- Solcourse Jointing Accessories range available.
- Solcourse Standard & bespoke preformed cloaks available.
- The material DPC bond achieved is stronger then the mortar brick bond achieved.

General

Installation of Solcourse 3S DPC must follow normal good practice for the detailing of a DPC, as set out in PD 6697:2010, and must be in accordance with the relevant clauses of BS 8000-0:2014, BS 8000-3:2001, BS8000-4:1989, BS 8215:1991, and BRE Digest 380.

Care should be taken to avoid impact damage from sharp objects during installation.

Jointing & Surface Fixing

When jointing Solcourse DPC a minimum of 100mm is to be joined/adhered using the Solco Double Sided Butyl Tape.

To ensure a satisfactory connection to the inner leaf of cavity construction is made, Solco Primer should be firstly applied then the Solco DPC Fixing strip and pins should be used.

Fixing in a Cavity

Bond the vertical portion of the cavity tray to the inner leaf with Solcourse double sided butyl tape, position the Solcourse DPC fixing strip approximately 5mm below the top edge of the cavity tray. At one end of the fixing strip use a bradawl to form a pilot hole (through DPC and tape) into the insulation, using the hole in the fixing strip as a guide. Push the fixing pin through the fixing strip into the pilot hole. The fir tree portion of the fixing pin will secure the fixing strip and cavity tray in position, repeat for each hole of the fixing strip.

Installation Practice

The following installation practices are essential:

- The DPC must extend through the full thickness of the wall or wall-leaf, including pointing, applied rendering or other facing material.
- The DPC must be laid out on a wet, even bed of mortar (perforations in adjacent courses of brickwork must be closed with mortar) and project 5mm beyond the finished face.
- The DPC must always be sandwiched between wet mortar and not laid dry.
- All lap joints in the DPC must have a minimum of 100mm overlap, be completely sealed with suitable tape and supported by a suitable joint system in accordance with Solco's instructions.
- The preformed cavity tray units must be used at stop ends, and at all corners or changed in levels of cavity trays.
- Where used as a cavity tray, the DPC laps must be sealed.

When using the product with boot lintels or similar constructions, it is recommended that the material is installed following the lintel profile, where appropriate.

Damaged areas of the product can be repaired prior to being installed by cutting out and/or replaing the damaged section, ensuring joints are made in accordance with Section 13.1. Once covered, the product cannot be repaired.

Installation (cont.)

In beam-and-block flooring, the product may be laid on a brick or block wall, provided the following conditions are satisfied:

- The minimum bearing of the beams recommended by the flooring system's manufacturer is achieved.
- The dead and applied loads upon the DPC via the beam do not exceed 2.5N/mm^2.
- The surface of the wall onto which the DPC and beam are to be installed is clean, smooth and free from projections and perforations. Failure to comply with this requirement could lead to perforation of the DPC. If this requirement cannot be satisfied, the DPC should be laid on an even bed of mortar.
- Any loose aggregate is swept from the wall prior to installation of the DPC and from the DPC prior to the installation of the beam.

Cleaning Cavities

As with other DPC materials, damage can occur during cleaning of mortar droppings from the DPC unless care is taken. The following recommendations minimise damage occurring:

- Cavity battens should be used to prevent excessive amounts of mortar droppings reaching the DPC.
- Mortar droppings should be removed before they have had time to harden.
- Implements such as steel rods should never be used for cleaning.
- The DPC should be examined for damage as work proceeds.

Storage & Handling on Site

Solcourse 3S DPC is classified as non-hazardous (code of practice CP102 1973). The product is chemically inert and any acids or alkalis present in the subsoil will not affect the product. It is not recommended for use when exposed to sunlight and general outdoor weather conditions for long periods of time, and weathering will not occur when installed. Rolls should be stored on end and under cover and on a flat, level surface. Contact with organic solvents must be avoided.

The product is handled and cut using the same techniques as for traditional DPCs. It retains sufficient flexibility when used at the lowest temperatures at which walls are normally built and does not become tacky in warm, ambient weather conditions. However, if stored at low temperatures, Solcourse 3S DPC should be left in a warm place before use to improve handling.

Difficulties may occur when forming certain details, particularly when bending the product through two angles at the same time. In such cases, care must be taken to achieve a satisfactory seal and, where necessary, preformed cloaks should be used. Care should be taken at temperatures below 5°C to avoid the risk of condensation on jointed surfaces, which may affect the efficiency of the self-adhesive tapes.

Technical Data & Test Results

Dimension Properties	
Thickness (*mm*)	0.6
Roll Width (*mm*)	Various
Roll Length (*m*)	20
Colour	Black
Mass (*kg/m^2*)	0.588
Technical Data	
Durability (artificial ageing)	Pass
Durability (alkali)	Pass
Watertightness (2 kPa)	Pass
Resistance to Low Temperature (°C)	-40
Resistance to Impact (*mm*)	250
Resistance to Static Loading (*kg*)	20
Water Vapour Permeability (*g/m^2/day*) [BS3177]	0.4
Cold Flex Temperature (°C) [BS2782:320A]	-60
Tensile Modulus (*MPa*) [BS2782]	12
Tensile Strength (MPa) [BS2782:320A]	15
Elongation at Break (%) [BS2782:320A]	>400

Roll Width	Roll Length	Roll Weight
100mm	20m	1.2kg
112.5mm	20m	1.35kg
150mm	20m	1.8kg
225mm	20m	2.7kg
300mm	20m	3.6kg
337.5mm	20m	4.0kg
450mm	20m	5.4kg
600mm	20m	7.2kg
900mm	20m	10.8kg

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Accessory Products for Jointing and Supporting Solcourse DPC Materials.

SOLCO

Features and benefits:

- DPC joint fully supported.
- Product enables designer and installer to comply with best practice.
- Provides a clean and watertight joint.
- Improves installation procedures helping to reduce overall costs.

Description

Solcourse DPC Jointing Accessories comprise a range of products for jointing, supporting and fixing DPC cavity trays and preformed cloak units and which are required to make up the complete damp proof course system.

Product	Description	Size(s) / Coverage	Pack Sizes
SOLCO DPC Joint Support System	Polypropylene Support Boards used in conjunction with Solco Butyl DPC Jointing Tape.	15 No. 350 x 220mm 1No. Solco Butyl Jointing Tape	System
SOLCO Double sided Butyl Jointing Tape	Butyl double sided Adhesive Tape for securing joints and laps in DPC's, Cavity trays & pre-formed Cloaks.	100mm x 10m	Rolls
SOLCO DPC Lap Adhesive	A brush applied synthetic rubber / resin mixture. It is used to seal joints between Solcourse high performance DPCs, cavity trays and preformed cloak unit.	750ml (Covers approx 4-5m^2)	Cans
SOLCO Primer	A rubber modified bituminous primer for preparing block, concrete or metal surfaces prior to the application of Solsheet self adhesive tanking membranes and Solco Butyl DPC Jointing Tape.	Coverage is 3 to 4m^2 per litre.	5 Litre Can & 25 Litre Drum
SOLCO DPC Mastic	A thick synthetic rubber mastic adhesive with gap filling properties up to 6mm. Solco DPC Mastic is suitable for bonding surface-fixed Solcourse high performance DPC cavity trays and preformed cloak units to a wide range of common building materials such as block, concrete or metal. No primer is necessary.	Coverage is 1.2 to 2m^2 per litre. A 400ml Cartridge equates to 14 linear meters @ 6mm bead.	2.5 litres Tins 400 ml Cartridge
SOLCO DPC Fixing Strips	Solcourse DPC Fixing Strip is corrosion resistant rigid plastic strip, It is used to surface fix Solcourse high performance DPC cavity trays and preformed cloak units to the inner leaf.	25mm x 2mm x 2m pre-drilled at 150mm centres c/w DPC Fixing pins	Pack of 40 LM
SOLCO DPC Fixing Pins (Masonry)	Solco DPC Fixing Pins for Masonry are corrosion resistant and can be used for surface fixing Solcourse high performance DPC systems to any solid internal substrate such as brick, stone and concrete.	6mm x 35mm Fixing pins	Pack of 200
SOLCO DPC Fixing Pins (Insulation)	Solco DPC Fixing Pins for Insulation are corrosion resistant and can be used for surface fixing to the rigid insulation of composite inner skins.	6mm x 35mm Fixing pins	Pack of 1000
SOLCO High performance Insulation Fixing	For applications requiring high pull out resistance, or for fixing to poor quality base materials, Solco HP Insulation Fixing is recommended. Solco HP Fixing features an expansion pin, driven into the stem of the fixing to expand the stem and provide a high pull out resistance.	10mm dia. x 50mm head Lengths: 60mm - 170mm	Pack of 200
SOLCO Insulation Panel Fixing	Solco Insulation Panel Fixing is recommended for securing rigid insulation, EPS, High Density Rockwool and Composites, to solid base materials.	8mm dia. x 35mm head Lengths: 50mm - 130mm	Pack of 200
SOLCO Insulation Retaining Washers	Insulation retaining washers are used in conjunction with screws to secure insulation to timber, sheet steel and other non standard base materials.	46mm x 5mm (Short stem) 46mm x 12mm (Long stem)	Pack of 1000
SOLCO DPC Blanking Plug	Solco DPC Blanking Plug has been designed to offer a solution to the problem of sealing holes drilled in bricks and mortar for the installation of DPC Chemicals.	10mm / 12mm Dia. Grey / Terracotta	Pack of 1000
SOLCO Soft Washer Fixing	For securing Solco drainage & waterproof applications to concrete etc by hand nailing or shot-firing.	40mm (nail) x 34mm Washer	Pack of 200
SOLCO Membrane Fixing plugs	The fixing plug is used in damp proofing applications, to secure the specialist membranes to the base material, usually brickwork and concrete.	70mm x 30mm (head) Sealing washer also available	Pack of 100