

Colpor 200PF

Pitch - Free, Cold applied, aviation fuel and jet blast resistant pavement sealant

Uses

For the sealing and maintenance of joints in concrete roads, runways and hard standings. The excellent fuel resistance of Colpor 200PF makes it particularly suitable for sealing areas where fuel and oil spillage might occur such as airports, oil terminals, garage forecourts, parking and cargo areas, docks, harbours and warehouses and filling stations

Advantages

- Pitch free - environmentally friendly
- Fuel, oil and hydraulic fluid resistant
- Self levelling
- Tough rubbery seal, tolerant of climatic variations
- Improved sealing efficiency - less maintenance
- High movement accommodation
- Cold applied - no heating equipment required

Standards compliance

British Standard 5212:1990 – types N, F and FB.

US Federal Specification, SS-S-200E:1984.

Description

Fosroc Colpor 200PF is a cold applied, two part sealant designed polyurethane for joints in concrete paved areas.

The capability of accommodating repeated and pronounced cyclic movements is retained by Colpor 200PF throughout extremes of climatic temperatures.

Colpor 200PF is resistant to fuel, oil and hydraulic fluid spillage, will not harden in cold weather nor become excessively soft in hot conditions. Colpor 200PF has high durability and a long service life which significantly reduces maintenance costs.

Technical support

Fosroc offers comprehensive technical support, including help at the design stage, application advice and on site problem solving. Specifiers and contractors are encouraged to contact our trained staff for answers to their questions. For further information please contact us at your nearest Fosroc office.

Design criteria

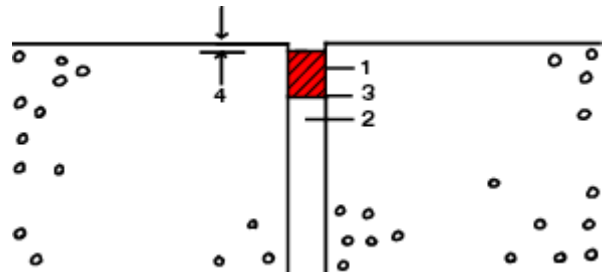
Colpor 200PF has a movement accommodation factor of 25% in butt joints.

To ensure the sealant operates within its stated movement capacity of 25%, the width of sealing slots should be designed in accordance with the recommendations of BS 6093. In trafficked areas the expansion joint width should not generally exceed 30mm - for wider joints consult local Fosroc office.

Joint depth: In trafficked areas the sealing slots should be so constructed that at no time during the anticipated operating cycle of the joint will the sealant protrude above the surface of the concrete pavement. To ensure this, it will be necessary to recess the level of the sealant 5 mm to 8 mm below the pavement surface dependent on the time of year and temperature prevailing at the time of sealing.

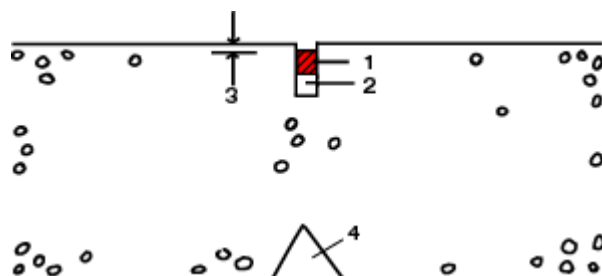
The width/depth ratio of the Colpor 200PF seal should be 1: 1 to 1¹/₂:1 subject to a minimum 10 mm depth of sealant (example: contraction joint: 15 mm wide x 13 mm depth; expansion joint: 25 mm wide x 20 mm depth).

Example of a sealed expansion joint in a concrete pavement subject to traffic is shown below



- 1 Colpor 200PF
- 2 Fosroc Fiberboard or other compressible joint filler
- 3 Bond breaker/Fosroc backing strip
- 4 Recess

Example of a sealed contraction joint in a concrete pavement subject to traffic is shown below



- 1 Colpor 200PF
- 2 Bond breaker/Fosroc backing strip
- 3 Recess
- 4 Crack inducer

Colpor 200PF

Typical Properties

Form:	Two part compound Base compound: viscous liquid Curing agent: liquid	
Colour:	Black	
Movement accommodation factor (BS 6093):	Butt joints 25%	
Physical or chemical change:	Chemical cure	
Setting time:	After 16 to 24 hours Colpor 200PF will be tack free and accept traffic. Full cure and maximum hardness are attained in approximately 3 to 4 days at 25°C.	
Application temperature:	To avoid unacceptably prolonged cure times, do not apply at temperatures below 5°C.	
Hardness shore 'A' at 25°C:	15 ± 5	
Chemical resistance to occasional spillage	Petrol	resistant
	Aviation fuels	resistant
	Diesel fuels	resistant
	Synthetic oils	resistant
	Mineral oils	resistant
	Hydraulic fluids	resistant
	Kerosene	resistant
	White spirit	resistant
	Skydrol	resistant
	Dilute acids	resistant
	Mild alkalis	resistant
Solids content:	100%	
Density:	1.36 kg/litre	
Flash point:	Over 65°C	
Flammability:	Burns but does not readily support combustion.	

Maintenance

No special requirements, any damage identified during normal inspections should be repaired or replaced as appropriate.

Specification clauses

Where so designated on the drawing, joints are to be sealed using Fosroc Colpor 200PF, pitch free pavement sealant manufactured by Fosroc to BS 5212:1990 and U.S. Federal Specification SS-S-200E:1984. Joints shall be prepared and the sealant mixed and applied in accordance with the manufacturer's current data sheet.

Application instructions

Joint preparation

Joint sealing slots should be accurately formed and must be dry, sound, clean and free from frost. Remove all dust and laitance by grinding, grit blasting or wire brushing. The prepared sealing slot should be blown out with dry, oil-free compressed air.

Ensure that any expansion joint filler is tightly packed in the joint and at the required depth to provide the seal dimensions specified. Before sealing insert a cord or bond breaker caulked tightly into the base of the sealing groove to prevent sealant adhering to the base of the slot.

Priming

Prime sealing slot surfaces with Fosroc Primer 20 using a clean dry brush. Colpor 200PF; must be applied between 30 minutes and 2 hours after priming, depending on climatic conditions. Colpor 200PF must be applied when the primer has become touch dry, that is after the evaporation of the solvent, but before the primer film has completely reacted.

If the primer film has become completely tack free, the surfaces must be reprimed before applying the sealant.

If the primed areas are left unsealed overnight the primer film must be removed by grit blasting or grinding and the joint interfaces reprimed. Therefore, avoid priming more work than can be sealed within the time-scales above.

Avoid over application of Fosroc Primer 20, as this may cause puddles of primer to lie at the base of the sealing slot.

Mixing

Drain totally the contents of the tin containing the curing agent into the large base component tin. Using a hand held, slow speed drill (400 to 500 rpm) fitted with a Fosroc paddle blade stirrer, mix for approximately one minute, stop the mixer and scrape around the top of the tin to remove any remaining curing agent. Continue mixing for a further 3 minutes until the material is thoroughly mixed. In cold weather, Colpor 200PF mixes more easily if stored overnight at room temperature.

Colpor 200PF

Application

When mixed, the sealant is loaded into a Fosroc GX Gun by removing the nozzle cap. The nozzle cap is then replaced ready for application. In wider joints of 25 mm and above, the mixed sealant may be poured directly from the tin by bending the side to form a pouring lip. Apply mixed sealant into the joint so that the finished level of the seal is recessed below the trafficked surface as specified.

BS 5212:1990 Pt 2 sets out a code of practice for the application and use of joint sealants for concrete pavements.

Cleaning

Clean equipment immediately after use with suitable solvent. Remove mixed Colpor 200PF from the hands with 'Keroclense 22', 'Swarfega' or similar industrial hand cleanser.

Ancillary materials

Primer 20
Suitable solvent
Expandafoam
Paddle Blade Stirrer
Fosroc GX Gun

Limitations

For the sealing of floor joints indoors, the use of Thioflex 600 or Expoflex 800 is recommended in preference to Colpor 200PF. Colpor200PF is not normally compatible with bituminous surfaces. For situations where Colpor 200PF could come into contact with pavement asphalt, for example, a transition joint between concrete and asphalt pavements, please contact Fosroc for advice.

Fosroc Primer 20 is not compatible with bituminous surfaces.

Estimating

Packaging

Colpor 200PF is packed in 5 litre composite packs containing a base compound (Part B) and curing agent (Part A). Each box contains two packs (4 tins).

Colpor 200PF is also available in 20 litre packs, subject to a minimum order.

Note: In accordance with Commercial or Health & Safety requirements packaging detail may alter. Please contact your local Fosroc office for detail.

Guide to Colpor 200PF quantities:

Joint size in mm	Litres per metre	Metres per 5.0 litre unit
10 x 10	0.100	50.00
13 x 13	0.169	29.59
15 x 15	0.225	22.22
20 x 15	0.300	16.66
20 x 20	0.400	12.50
25 x 20	0.500	10.00
25 x 25	0.625	8.00
30 x 25	0.750	6.67

1 litre of Fosroc Primer 20 will be sufficient for 20 litres of Colpor 200PF.

These are theoretical yields. No allowance has been made for variations in joint dimensions or wastage.

Storage

Storage life of 12 months when stored in original container in cool, dry conditions i.e. not exceeding 25°C. Storage above this temperature may reduce storage life.

Precautions

Health and safety

Colpor 200PF, Fosroc Primer 20 and suitable solvent may cause sensitisation by inhalation and skin contact. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream, followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use only in well ventilated areas.

For additional information see relevant Material Safety Data Sheet.

Fire

Fosroc Primer 20 is flammable. Do not expose to naked flames or other sources of ignition. No Smoking. Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO₂ or foam.

Flash Point

Fosroc Primer20 : 34°C

Colpor 200PF

Additional information

Technical data – ancillary materials

Fosroc Primer 20		
Coverage:	12.5 m ² /litre	-
Application temperature:	5 to 35°C	
Pack size:	500ml	

Colpor is the trademark of Fosroc International Limited

Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.
