

Fosroc® Colpor 200PF

Cold applied, high performance, pitch free, pavement joint sealant, resistant to fuel and oil spillage

Uses

For the sealing and maintenance of joints in concrete roads, concrete runways and hard standings and other large concrete pavement areas. The excellent fuel resistance of Colpor 200PF makes it particularly suitable for sealing areas where fuel and oil spillage might occur such as aircraft fuelling areas, oil terminals, garage forecourts, parking and cargo areas.

Advantages

- Pitch-free
- Cold applied - no heating equipment required
- Fuel, oil and hydraulic fluid resistance
- Self smoothing (refer to Finishing section)
- Tough rubbery seal
- High performance - less maintenance
- High movement accommodation

Standards Compliance

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

U.S. Federal Specification SS-S-200F 1984

Description

Colpor 200PF cold applied, pitch-free, two-component elastomeric sealant is designed for horizontal joints in concrete paved areas.

The capability of accommodating cyclic movements is retained by Colpor 200PF throughout extremes of temperature conditions.

Colpor 200PF is resistant to fuel, oil and hydraulic fluid spillage, will not harden in cold weather nor become excessively soft or pick up in hot conditions. Colpor 200PF provides a high level of sealing efficiency over an extended period, reducing maintenance costs.

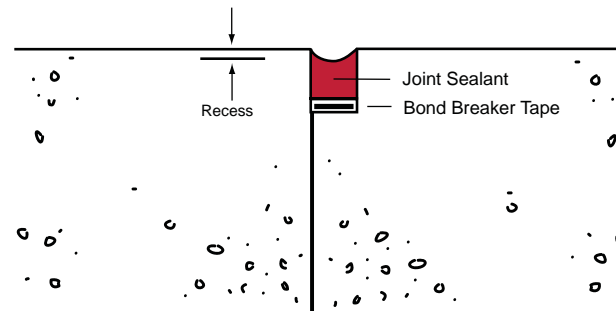
Design Criteria

Colpor 200PF has a movement accommodation factor of $\pm 25\%$ (total 50%) in butt joints. For optimum performance, consideration should be given to possibility that movement accommodation will not be evenly distributed between joints provided. In trafficked areas the maximum expansion joint width to be limited to 30 mm.

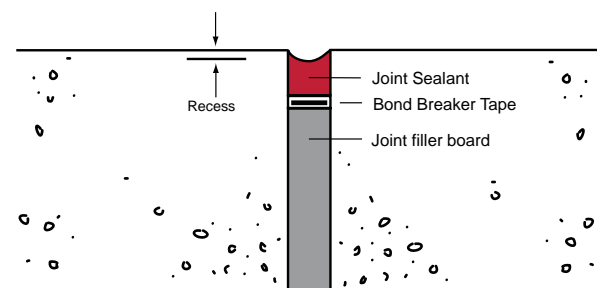
Joint depth: In trafficked areas the sealing slots should be constructed so that at no time during the anticipated operating cycle of the joint will the sealant protrude above the surface of the concrete pavement. To ensure this, it will be necessary to recess the level of the sealant 3 mm - 5 mm below pavement surface dependent on the time of year and temperature prevailing at the time of sealing.

The width/depth ratio of Colpor 200PF seal should be 2:1 subject to a min 12 mm depth of sealant (example: contraction joint: 15 mm wide x 12 mm depth; expansion joint: 25 mm x 13 mm depth). For joint subject to regular movement, optimum configuration of 2:1 width to depth should be used.

Typical Construction joint



Typical Expansion Joint



Maintenance

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

Technical Support

Parchem offer a comprehensive range of high performance, high quality construction products. In addition, Parchem offer a technical support package to specifiers and contractors which includes on-site, technical advice from staff with unrivalled experience in the industry.

Specification Clauses

Where so designated, joints are to be sealed using a fuel resistant, pourable, elastomeric joint sealant conforming to BS5212:1990 type N, type F and type FB. The sealant must also conform to US Federal Specification SS-S-200F:1984.

The joint sealant must be able to accommodate cyclic joint movement of up to $\pm 25\%$. Such a product is Colpor 200PF supplied by Parchem.

Fosroc® Colpor 200PF

Properties

Form:	Two-component compound Base compound: viscous liquid Curing agent: liquid
Colour:	Black
Movement accommodation factor:	± 25% (50% total)
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:	18 (±5)
Chemical resistance to occasional spillage:	Dilute acids resistant Mild alkalis resistant Petrol resistant Aviation fuels resistant Skydrol resistant Diesel fuels resistant Synthetic oils resistant Mineral oils resistant Hydraulic fluids resistant Kerosene resistant White spirit resistant
Solids content:	100%
Specific gravity:	1.36 (approx.)
Flash point:	140°C
Flammability:	Burns but does not readily support combustion

Application Instructions

Joint preparation

Joint sealing slots should be accurately formed and must be dry, sound, clean and free from frost, curing compounds and form release agents. 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 fully fills the base of the joint and is at the required depth to provide the seal dimensions specified. Before sealing insert a polyethylene bond breaker tape into the base of the sealing groove to prevent sealant adhering to the base of the slot.

Bond Breaker Tape is not required when sealing over polyethylene based joint fillers / backing rods.

Priming

Prime joint sealing slot surfaces with Primer 7 and allow the surface to become touch dry before sealing. This takes between 30 minutes and 2 hours depending on climatic conditions. Colpor 200PF must then be applied within 8 hours. After 8 hours any primed surfaces must be reprimed before applying sealant, therefore avoid priming more work than can be sealed in a 8 hour period.

Avoid too liberal an application of Primer 7 causing puddles of primer to lie at the base of the sealing slot.

Priming is best done before any bond breaker tape is applied to avoid contamination of the bond breaker tape.

Mixing

Drain totally the contents of the tin containing the curing agent into the large base component tin. Using a heavy duty slow speed drill (300 to 500 rpm) fitted with a spiral mixing paddle, mix for approximately 1 minute, stop the mixer and scrape around the top of the tin to blend in 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.

Application

When mixed, the sealant may be applied in to the prepared joint using a heavy duty barrel type caulking gun . 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 sealing slot so that the finished level of the seal is recessed below the trafficked surface as specified.

Finishing

Release of air bubbles from joints with rough or porous faces will be enhanced by tooling the sealant surface with a convex tool. Tooling off will provide a smooth level finish. Any masking tape should be removed immediately after tooling.

Cleaning

Clean equipment immediately after use with Fosroc Solvent 10. Remove mixed Colpor 200PF from the hands with an industrial hand cleanser.

Limitations

When sealing of floor joints indoors, the use of Thioflex 600 should also be considered in preference to Colpor 200PF due to some residual odour exhibited with Colpor 200PF.

For situations where Colpor 200PF could come into contact with pavement asphalt, for example, a transition joint between concrete and asphalt pavements, apply two coats of Primer 7 to the asphalt joint faces. Allow the first coat to become tack-free before application of the second coat. Prime only those areas that can be sealed on the same day.

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Supply

Colpor 200PF is supplied in 5 litre composite packs containing base compound and curing agent in separate tins.

FC920805-5L	Colpor 200PF	5 litre pack
FC965209-1L	Primer 7	1 litre can

Guide to Colpor 200PF quantities

Joint size in mm	Litres per metre	Metres per 5.0 litre
10 x 10	0.100	50.0
13 x 13	0.169	29.6
15 x 15	0.225	22.2
20 x 15	0.300	16.6
20 x 20	0.400	12.5
25 x 20	0.500	10.0
25 x 25	0.625	8.0
30 x 25	0.750	6.7

1 litre of Primer 7 will be sufficient for 20 - 30 litres of Colpor 200PF depending on substrate porosity.

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

Storage

Colpor 200PF has a shelf life of 12 months from date of manufacture when in original containers stored in cool, dry conditions i.e. not exceeding 25°C. Storage above this temperature may reduce storage life.

Refer to Use by Date on packaging.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



constructive solutions

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