Colpor 200PF

constructive solutions

Cold applied, high performance, pitch free, pavement joint sealant

Uses

For the sealing and maintenance of joints in concrete roads, concrete runways and hard standings. Colpor 200PF is 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
- High durability and long service life
- High movement accommodation

Standards compliance

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

U.S. Federal Specification SS-S-200E : 1984.

Description

Colpor 200PF retains its movement accommodation of 25% on butt joints throughout the extremes of temperature, it does not harden in cold weather nor become excessively soft or pick up in hot conditions.

In trafficked areas the maximum expansion joint width should be limited to 30 mm. It is necessary to recess the level of the sealant 5 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 1½ : 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).

Properties

Form:	Two part compound Base compound: viscous liquid Curing agent: liquid
Colour:	Black
MAF (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:	Aviation fuels Hydraulic fluids Skydrol Kerosene Petrol Diesel fuels Synthetic oils Mineral oils White spirit Mild alkalis Dilute acids
Solids content:	100%
Flash point:	Over 65°C
Flammability:	Burns but does not readily support combustion

Application instructions

Joint preparation

Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and free from frost. Remove all dust and loose material by grit blasting or grinding. Avoid polishing the joint sides when grinding. 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 insert a bond breaker or cord caulked tightly into the base of the sealing groove to prevent sealant adhering to the base of the slot and provide the specified depth of sealant.

Priming

Concrete joint faces should be primed with Fosroc Primer 20 or Primer 19.

Primer 20
Decant sufficient primer into a clean dry tin for the days usage. Do not return unused primer to the supply tin at the end of the day. Prime the joint faces with a thin uniform coat of primer and allow solvent to evaporate before sealing. This takes between 30 minutes and 2 hours depending on climatic conditions. If sealant is not applied within 2 hours the joint face should be reprimed.

Where concrete joints are exposed or subject to conditions of prevailing damp or where the concrete is unusually dense or porous, (e.g. in parts of Scandinavia and Northern Europe) the use of Primer 19 is recommended. Contact the local Fosroc office for further details.

Primer 19
Empty the entire contents of the Primer 19 hardener tin into the base tin, and replace base tin lid. Mix thoroughly

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by shaking tin for 2 minutes. Prime the joint face using a clean dry brush. Avoid over application of primer causing puddles in the bottom of the joint. Colpor 200PF should be applied between 30 minutes and 4 hours after priming. If the joint is not sealed overnight the primer film should be removed by grit blasting and the joint reprimed.

The mixed Fosroc Primer 19 should be applied within one working day. Do not split packs of Fosroc Primer 19.

Mixing

Drain totally the contents of the curing agent tin into the large base component tin. Using a hand held, slow speed drill (300 to 500 rpm) fitted with a Fosroc paddle blade stirrer mix for 1 minute. Stop and scrape around the top of the tin to remove any remaining curing agent. Continue to mix for 3 minutes until the material is thoroughly mixed.

In cold weather, Colpor 200PF mixes more easily if stored overnight at room temperature.

Application

Pour mixed sealant into a Fosroc G Gun after removing the nozzle end cap, pulling back the plunger rod and replacing end nozzle. In 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 so that the finished level of the seal is recessed below the trafficked surface as specified.

Cleaning

Clean equipment immediately after use with Fosroc Equipment Cleaner. Remove mixed material from the hands with 'Swarfega' or similar industrial hand cleanser.

Estimating

Packaging

Colpor 200PF is supplied in cartons containing 2 x 5 litre units, comprising a tin of base and a tin of curing agent.

For machine application Colpor 200PF is available in 20 litre units. Where a fast cure machine application is required refer to Nitoseal 888 data sheet.

Guide to Colpor 200PF quantities

Joint size in mm	Litre per metre	Metre per 5.0 litre pack
10 x 10	0.100	50.00
13 x 13	0.169	29.58
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	6.66

1 litre of Fosroc Primer 20 or Fosroc Primer 19 will be sufficient for 25 litres of Colpor 200PF. Yields are theoretical, no allowance has been made for variations in joint dimensions or wastage.

Limitations

For the sealing of industrial floor joints, higher modulus sealants such as Thioflex 600* or Expoflex 800* (see separate data sheets) are recommended.

Colpor 200PF is not compatible with bituminous surfaces. Where Colpor 200PF could come into contact with pavement asphalt, please contact the local Fosroc office for advice.

Storage

Store Colpor 200PF in original containers in cool, dry conditions i.e. not exceeding 25°C. Storage life in these conditions is 12 months. Storage above this temperature may reduce storage life.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

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