



Flintkote PF-4 Bitumen Paint

Issued: March 2015

Description: Flintkote PF-4 bitumen paint is a low viscosity blend of selected hard grade bitumen in solvent, which dries to form a high quality tough bitumen film.

(Note: Flintkote PF-4 bitumen paint was formerly marketed under the brand name Shell PF-4 bitumen paint.)

TYPICAL VALUES	Property	Test Method	Flintkote PF-4 Bitumen Paint
	Coverage		0.1 – 0.3 litre/m ² per coat depending on actual surface environment and application
	Drying Time	BS 3416	About 3 hours, depending on temperature and humidity
	Finish	BS 3416	Smooth, Opaque and free from sags or runs.
	Tap Water Immersion Resistance	BS 3416	Film remained completely adhered to the substrate. No blistering was observed. No visible rust / pitting after coating removed.
	Artificial Sea Water Immersion Resistance	BS 3416	Film remained completely adhered to the substrate. No blistering was observed. No visible rust or pitting after coating removed.
	Bending Resistance	BS 3416	No signs of cracking and detachment from surface.
	Effect on Portable Water	BS 3416	Suitable for use in contact with potable water.

Advantages

- Easy and inexpensive to use: supplied in single pack so no mixing is required and easy to apply by brush or trowel.
- Does not taint water.
- Quick drying.
- High coverage rates.
- Formulated to provide excellent adhesion to common building substrates to form a seamless and lap free tough bitumen film over any shape of substrate and conform to protrusions and difficult details.

Uses

- As vapour barrier, damp proof course, lining to potable water tanks and pipes to provide continuous barrier to the passage of water and water vapour.
- Corrosion protection to metal surfaces such as "I" beams for piling, steel pipes and drinking water tanks.
- Concrete protection.
- As a primer for concrete roofs, cement screeds/renders, bitumen felt, mastic asphalt prior to application of other bituminous coatings.
- To rejuvenate bituminous felts or asphalt surfaces which have been oxidised.

Application Instructions

Surface Preparation Surfaces shall be dry, clean and free from dust, dirt, oil, grease, moss and loose material.

Coating Application **Flintkote PF-4** may be applied by brush or trowel for a minimum of two thin coats at a coverage of 0.1 – 0.3 litre/m² per coat. Allow to dry between coats and apply each coat at right angles to the previous coat.
When used as a primer, apply only one coat and allow to dry.

Storage

Flintkote PF-4 can be stored for at least 12 months in original sealed containers stored under cover in a cool and dry place. It must be stored under conditions which meet local regulations applying to such substances.

Typical Specification Clause

Bituminous or concrete surface areas so designated shall be coated with **Flintkote PF-4** bitumen paint from Shell. The coatings should be applied in a minimum of two coats at a coverage of 10 m²/litre per coat in accordance with Shell's current product data sheet.

Packing

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3.5, 18 & 200 Litre

Health and Safety

Flammability	<p>Flammable. Keep away from sources of ignition including pilot lights and sparks. Take precautionary measures against static discharge. Do not smoke. Keep containers tightly closed when not in use.</p> <p>If used in an enclosed space, ensure thorough ventilation of the area (using flame-proof mechanical blowers) to avoid any accumulation of vapour until the product has dried. In case of fire, use dry powder, carbon dioxide, foam sand or earth. Never use water as this may spread the fire.</p> <p>Note: Electric motors, light/power switches and steel tools may generate sparks sufficient to ignite such a material or the vapours given off, resulting in an explosion and/or fire.</p>
Skin Contact	<p>Contains solvents which cause defatting of the skin and, in extreme circumstances, dermatitis. Avoid contact by careful working and use of barrier cream or gloves. Remove skin contamination with a proprietary hand cleaner followed by washing with soap and water.</p>
Eye Contact	<p>Could be harmful. Wear protective eye-shields, especially where there is a danger of splashing. In the event of accidental contact, irrigate eyes immediately with clean water for 15 minutes and seek medical help.</p>
Inhalation	<p>Contains low volatility solvents. Use in well-ventilated areas and avoid inhalation and use suitable respirators or breathing masks where necessary. In the event of discomfort as a result of inhalation, remove person to fresh air and obtain medical help.</p>
Oral Digestion	<p>With proper handling oral digestion should not occur. The possibility can be minimized by not consuming food in the working area and by washing hands thoroughly before eating, drinking and smoking.</p>
Spillage	<p>Spilled material should be mopped up immediately with an inert absorbent material such as sand and disposed of, in accordance with local regulations, by incineration or burial.</p>
Disposal of Containers	<p>Do not leave empty containers on site where any residue can be a hazard to children or animals. Replace lids and remove all containers to a central disposal point.</p>

Flintkote PF-4 is unlikely to present significant health and safety hazard when properly used in the recommended application, provided good standards of industrial and personal hygiene are maintained.

Safety Data Sheet

Available on website: www.epc.shell.com

Technical support and engineering options to provide fit-for-purpose applications that meet customer needs and waterproofing requirements are available. For further information, please contact your local Shell office or visit us at: <http://www.shell.com/bitumen>.

Note: This data sheet is issued as a guide to use of the product(s) concerned, and whilst every effort is made to ensure the accuracy of the text which is in accordance with the latest technical development we cannot accept responsibility for any work carried out with our materials, as we have no control over the method of application used or condition of site involved.

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www.shell.com/bitumen

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