



WATERSEAL

Issue date – WS-1/0403

**PENETRATING SPIRIT
BASED FORMULA**

**LONG LASTING
WATER REPELLENCY**

**ALLOWS MASONRY
TO BREATHE**

DESCRIPTION:

A White Spirit based solution of hydrocarbon waxes, resins and stearates suitable for brush or coarse spray application onto porous masonry surfaces to form a water repellent barrier, protecting against damaging effects of penetrating rainwater. The product acts by creating water repellent activity on the masonry substrate, preventing the capillary up-take of moisture, but still allowing the masonry to retain it's natural permeability and allowing it to breathe and dry from within.

SURFACE PREPARATION:

Surfaces to be treated should be sound, clean, dry and free from loose flaking materials, oil and grease stains. Any surface mould or fungal growths should be pre-treated with ABICIDE FUNGICIDAL WASH and allowed to dry before WATERSEAL is applied. Surface defects such as weak mortar joints or cracks should be either re-pointed or repaired with a suitable repair mix; filler or sealant. Masonry should ideally be cleaned back to bare brick, mortar or render to maximise the effect of the water repellent treatment.

APPLICATION METHOD:

Apply liberally using a brush or coarse droplet spray to all areas of the bare masonry, allowing 24 hours for the treatment to dry and take effect. Take precautions to ensure that the area requiring treatment is consistently coated and cover any windows, glass and surrounding floor areas not subject to treatment prior to application. Highly porous surfaces may benefit from repeat applications to create a higher degree of water-repellent activity, more suited to the needs of the surface. Wash splashes off skin with warm soapy water and always wear goggles, gloves, overalls and head protection when applying to elevated surfaces. Ensure good ventilation when treating internal masonry surfaces.

COVERAGE:

This will depend upon the texture and porosity of the masonry surface. Dense impermeable brickwork may only require a single coat of covering at about 5 to 6 square metres per litre, however on common more porous bricks and concrete blocks, the surface will absorb more fluid and coverage will be reduced to about 3 to 4 square metres per litre per coat. Highly porous surfaces may require several coats to achieve the desired degree of beading and protection.

TECHNICAL SUMMARY:

APPLICATION METHOD	SURFACE DRYING TIME	COVERAGE
Brush or Spray	2 - 3 hours @ 20°C	3 to 6 square metres / litre

HEALTH & SAFETY:

May cause lung damage if swallowed; Toxic to aquatic organisms;
May cause long term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness and cracking
Keep out of reach of children. Keep away from sources of ignition – No smoking.
If swallowed do not induce vomiting – seek medical assistance.
Do not breathe vapour. Avoid contact with skin and eyes

STORAGE & PACKAGING:

Waterseal is supplied in 5 litre and 25 litre Steel cans, and must be stored in sealed secure conditions away from sources of heat and ignition.

Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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SUBSTANCE IDENTIFICATION:

WATERSEAL

COMPOSITION:

Stearate & hydrocarbon based water repellents dissolved in white spirit
< 0.1% Benzene.
< 3% Trimethyl benzene
< 15% Aromatics
EEC No. 265-185-4
CAS – 64742-82-1

HAZARDS CLASSIFICATION: FLAMMABLE. HARMFUL

May cause lung damage if swallowed; Toxic to aquatic organisms; May cause long term adverse effects in the aquatic environment
Repeated exposure may cause skin dryness and cracking
Keep out of reach of children
Keep away from sources of ignition – No smoking.
If swallowed do not induce vomiting – seek medical assistance.
Do not breathe vapour. Avoid contact with skin and eyes.

FIRST AID MEASURES:

INHALATION:

Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.

SKIN CONTACT:

Wash off skin with warm soapy water. Remove contaminated clothing and launder regularly. Prolonged and unattended contact should be avoided. Where irritation to skin is apparent seek medical attention.

INGESTION:

Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet.

EYE CONTACT:

Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.

FIRE FIGHTING MEASURES:

Recommended extinguishers – Dry powder; Foam, C02 – Do not use water jets.
Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes.
Special procedures – Use approved self-contained breathing apparatus. Only use a fine water spray to cool down heat affected containers – not burning product.

ACCIDENTAL RELEASE MEASURES:

Ventilate area and eliminate all sources of ignition. Absorb, bund and scrape spillages onto sand, sawdust or absorbent granules and confine residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for flammable products. Consult Protective Equipment section for advice when handling spillages.

HANDLING & STORAGE:

Handling: Ensure adequate ventilation and use all recommended personal protective equipment
Storage: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool well-ventilated environment preferably within a lockable metal cabinet. Use electrostatic earthing when pumping or pouring large volumes of flammable liquid. Isolate all nearby source of ignition (pilot lights etc.)

EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT:

Occupational Exposure limit: 600mg/M3 for 8hr TWA or 1000 mg/M3 for 15 min TWA for Hydrocarbon components –

Respiratory: Good ventilation is required otherwise use an organic vapour filtered face mask in confined spaces.

Hand: Wear 17" long elbow length latex rubber (chlorinated) or nitrile gloves approved to EN 374 & EN 420 with a BTT rating of > 4 hrs.

Eye: BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact

Skin: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately.

SAFETY DATA SHEET No. 030 – issue date 21-06-04

PRODUCT: WATERSEAL

PHYSICO-CHEMICAL PROPERTIES:

Appearance – Clear liquid
Boiling point range – 142°C to over 200°C
Solubility – Hydrocarbon oils
Auto ignition temp – 230°C
Specific gravity - 0.78 +/- 0.05 g/cm3
Miscibility – oil only
Evaporation rate - = 0.11 (n-But Ac = 1)

Viscosity - 1.15 mm2/sec
Vapour pressure – < 0.2 kPa
Flash point - 39°C
Explosive limits in air - 0.6 - 7.0 Vol %
Viscosity – 1.15 mm2/s @ 25°C
PH - n/a
Oxidising properties - N/A

STABILITY & REACTIVITY:

Stable – No dangerous chemical reactions known – hazardous polymerisation will not occur.
Materials to avoid – Strong oxidising agents.
Conditions to avoid – sources of ignition - Hazardous decomposition products are smoke and oxides of carbon.

TOXICOLOGICAL INFORMATION:

Routes of exposure – Inhalation, skin contact and ingestion.
LD50 > 2000mg/kg when rat ingested and in contact with skin and LD50 > 5000mg/kg when rat inhaled for 4hrs.
Health effect – prolonged inhalation may cause headaches and Depression of the CNS.
Acute effects of inhalation – coughing and eyes watering.
Acute effects of skin contact – redness, irritation and sensitisation leading to dermatitis with persistent exposure.

Acute toxicity: Skin irritation

Sensitisation: dermatitis

Carcinogenicity: n/d

Irritation / Corrosivity: N/A

Mutagenicity: n/a

Reproductive toxicity: n/a

ECOLOGICAL INFORMATION:

Bio-accumulative potential – negligible due to high volatility resulting in rapid evaporation to air.
Ecotoxicity: LC50: 1 – 10 mg/litre
Environmental Persistence – Inherently biodegradable - Will be removed within a waste-water treatment facility.

DISPOSAL CONSIDERATIONS:

Application equipment such as brushes and cloths will retain a flammability risk until they are either laundered or allowed to dry completely. Unused product and freshly contaminated application materials must be considered flammable and disposed of in accordance with local authority regulations for flammable liquids / paints.

TRANSPORT INFORMATION:

IMDG: FLAMMABLE LIQUID, NOS (CONTAINS WHITE SPIRIT), CLASS 3, UN1993, PG III, (35°C cc), MARINE POLLUTANT

IATA / IACO: Class 3; Packing Group III; ADR / RID: UN 1993 FLAMMABLE LIQUID, NOS (CONTAINS WHITE SPIRIT), 3, PG III Transport Name (UK Road) – FLAMMABLE LIQUID, NOS, (CONTAINS WHITE SPIRIT).

EAC No/HIN No: 3Y/30

REGULATORY INFORMATION: FLAMMABLE

CHIP Hazard symbols: R10, R51, R53, R65, R66 – Harmful Xn & Environmental Hazard N

Safety phrases: S2 – S16 – S23 - S24 – S25 - S57 - S60 - S62.
All retail packs require a child resistant closure approved to BS EN ISO 28317 and a Tactile danger warning triangle



FURTHER INFORMATION:

The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.