

Blocksil

Specification & General Information

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Blocksil

Product Description

Blocksil is the ultimate in technical excellence for waterproof membranes. It comprises a one part silicone compound and a non woven needled polyester fleece reinforcement. These two components are applied on site, providing a seamless, fully adhered covering.

Blocksil Silicone Membrane

Technical Benefits

- a. The system is a liquid coating with a non-woven needled polyester fleece reinforcing membrane within it.
- b. The system when applied, cures to form a tightly adherent, seamless, permanently elastic, waterproof skin which follows the most complicated and irregular surface contours.
- c. The 'in service' working temperature range is -60 degrees C to +200 degrees C. It is normally stable throughout this range, retaining all of its properties 100%.
- d. Whilst most waterproof membranes soften at high temperatures and stiffen at low temperatures, this material remains constantly pliable and supple throughout.
- e. Its resistance to UV is excellent, indeed it is basically unaffected.
- f. With regard to chemical resistance, it has excellent resistance to dilute acids and alkalis. It is ideal in dense industrial areas where the air can be heavily contaminated.
- g. Permeability – It is 10 times more vapour permeable than most other high tech membranes, and 100 times more than bitumen based products, yet is fully water repellent.

- h. It is non-hygroscopic and will not support fungal growth.
- i. It has an extremely high fatigue resistance.
- j. With regard to surface spread of flame, it will not support combustion. It will burn when subject to intense heat, but will cease burning when the heat is removed. When tested in accordance with B.S.476:Part3:1958, achieved the designation of EXT.F.AB. It is Halogen free.
- k. It is solvent free and environmentally friendly.
- l. Whilst it will adhere to virtually all known substrates, the quality of the substrate will not affect the system. It is very strong and its strength is independent of the substrate.
- m. It has very high stress absorbing characteristics, and has excellent recovery.
- n. Whilst some of the base raw materials are imported from the continent, the final product is manufactured in the UK. It is a British Product.
- o. Blocksil has also been subjected to BS6920 Test on Effect of Water Quality, producing satisfactory results for all five separate leaching tests.

Blocksil Silicone Membrane

Equipment

Apply by hand using brush or roller.

Apply using airless pump with roller. When this application is used it is **vital** that the pump and lines are clear of any other liquids and then purged with Xylene for several minutes to ensure there is no residue, particularly water, left inside. Blocksil is moisture curing and will start to cure rendering the system useless.

NOTE: the holes in the roller assembly need to be increased to 1.5mm dia.

Cleaning of plant and Equipment

Plant and equipment cleaning must be carried out away from the working area in a well ventilated space as this involves the use of solvents.

A tray is required in which to stand a receiving container with a generous area around the container to catch possible spillages and splashes.

The pump must be purged with Xylene until the fluid flows freely and virtually clear. Carefully remove the residue fluid from around the intake tube and the wire gauze using solvent and brush.

For overnight storage, the brushes and roller can be wrapped in cling film to keep moist.

Personal Protection

Hands – It is advisable to wear gloves

Eyes - It is advisable to wear goggles

Packaging of Xylene solvent – 5 and 25 litre containers

Waste Disposal

The silicone compound/solvent mixture to be put into sealed containers for collection by Registered Chemical Waste Disposal Company.

Empty silicone containers and waste cured silicone to be stored safely for collection by a registered Chemical Waste Disposal Company.

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Surface Preparation

- Brush off dust and loose materials.
- Remove any oil and grease with Xylene.
- When preparing to cover existing felt roofing, remove projecting pieces of felt to make substrate flat.
- Tightly closed cracks – ignore.
- 2mm wide cracks and larger – use tape to bridge the gap to temporarily support it until the Blocksil is cured.
- Construction joints – use tape to bridge the gap to temporarily support. This also allows for expansion and contraction.

Packaging

- Blocksil compound – 25 and 5 litre containers
- Fleece - rolls 1 metre wide in varying lengths to suit
- Shelf life of compound – 1 year
- Shelf life of fleece – n/a
- All should be stored under cover and kept dry.

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Application

- Methods – hand brush, hand roller and airless pump with roller.
- Application temperature: 5 degrees to 35 degrees C.
- An initial treatment of silicone compound is uniformly applied at the rate of approximately 1 litre per square meter to the substrate.
- The fleece is then embedded into the wet coating, which is then rolled with a spiked roller to embed and remove any air pockets. The fleece is then coated with the silicone compound again at a rate of approximately 1 litre per square metre. This procedure is repeated at a rate to suit the operatives (say 1 to 6 metres at a time), then left to cure.
- Where vertical surfaces exceed 300 mm in height, UPVC clamping strips with stainless steel fixings are introduced to temporarily hold the membrane in position until it has cured. Each strip is covered by the next layer of membrane being bonded over it.
- Where an airless pump is used, it is advisable to stand the pump and container in a tray.
- Once a container is opened it should be used as soon as possible – all within 2 hours. Do not open a container until it is required for use.
- If a container is not completely used, the lid must be quickly, tightly re-fitted, when re-opened check and remove any surface skin before use.

Personal Protection

It is advisable to wear gloves and eye protection