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DIVERSE URETHANES

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TECHNICAL DATA SHEET

FLEXISEAL LR WATERPROOFING SYSTEM

Spray applied only

1) DESCRIPTION:

WATER BASED POLYMER RUBBERISED PRODUCT WITH A STRONG ADHESIVE BOND TO A WIDE RANGE OF SURFACE MATERIALS. RESISTANCE TO UV, CHEMICALLY AGGRESSIVE ENVIRONMENTS AS WELL AS RESISTANCE TO AGING AND CRACKING OF THE CURED FILM

2) APPLICATIONS:

LIQUID RUBBER IS USED FOR A WIDE RANGE OF APPLICATIONS RANGING FROM

WATER-PROOFING TO CORROSION PROTECTION INCLUDING:

- a) CONCRETE FOUNDATION, PIPES AND FORMS
- b) RETAINING WALLS AND CONTAINMENT BASINS
- c) STORAGE AND INTERMEDIATE PROCESS TANKS
- d) ROOF WATERPROOFING AND RESTORATION
- e) CORROSION PROTECTION OF METAL ROOFS AND STRUCTURES
- f) WATERPROOF LINERS, POND, RESERVOIRS, PLANTERS
- g) WASTEWATER AND SEWAGE PIPE PROTECTION
- h) WATERPROOFING CONCRETE SLABS FOR BRIDGE DECKS, PARKING DECKS, ROOF SUBSTRATES

3) TYPICAL PROPERTIES:

- a) SERVICE TEMPERATURE: -5 °C TO 80°C
- b) APPLICATION TEMPERATURE : 10⁰ C TO 35⁰ C
- c) SPECIFIC GRAVITY: 1.00 – 1.10

- d) COVERAGE: Brush applied (not recommended) - > 1.5 kg/sq m but varies due to technique. (DRY FILM THICKNESS AT LEAST MINIMUM 1MM)

Spay applied: Approximately 1.5 kg per 1 sq. meter. (DRY FILM THICKNESS AT LEAST MINIMUM 1MM)
- e) STORAGE: 1 YEAR MAX
- f) ELONGATION; AFTER 1000 HRS ACHIEVES 137%
- g) LIFESPAN 3 TO 5 YEARS DEPENDANT ON UV EXPOSURE
- h) CONTAINS NO ENVIROMENT DAMAGING VOC'S

4] Physical Properties

Hardness (Shore A) = 45

Tensile strength (MPa) = 1.8

Elongation at break (%) = 425

Angle Tear (kN/m) = 13.6

Trouser Tear (kN/m) = 5.2

4] Availability

- I. Available in Black (stock item) and Grey (made-to-order.)
- II. 20 kg plastic triple seal buckets.

5] Application Protocols

All surfaces must clear from dust, moisture and other contaminants.

Concrete surfaces must also be in a sound state before application. Dry and/or new concrete does not require a primer prior to application. Moist surfaces should be dried as much as possible and a moisture cured epoxy primer (Urochem 307) applied.

Fabric is not recommended but in the event that it is unavoidable, prime surface with FlexiCoat, lay the fabric on wet Flexiseal L only, saturate the fabric completely with more coats of Flexiseal L, allow to dry and then overcoat with the final coat of Flexiseal L or LR.

It is also recommended to apply a primer to steel surfaces before the Flexiseal is applied.

Flexiseal LR can be applied by means of a brush, or roller but this is not recommended and we take no responsibility should it be applied this way. The recommended method is by airless spray equipment. The non-slip version will require a nozzle size of at least 2 – 2.5 mm to accommodate the rubber particles in the material. Add the crosslinking agent 200 grams into 20 kg bucket prior to application. Do not add the cross linker and leave the material in the bucket overnight as the cross linker will be consumed and it will have to be added again. The cross linker adds to the tensile strength of the cured product.

Product will cure over a period of hours depending on the relative humidity of the day. Typical curing times vary between 4 and 6 hours. Application thickness can be varied by the number of coats applied and there is no limit to maximum thickness. However, to ensure a good waterproofing matrix, not less than 1 mm should be applied.

The coating should be allowed to cure for 12 hours prior to it getting wet. This ensures a rubber-like finish to the material when it is properly cured.

When brush applying, (not recommended) a minimum of 4 coats is needed and the direction of coats should be perpendicular with each other.

Sound substrate free of defects and latencies with no cracks are specified.

It should be noted that the Flexiseal LR is not suitable for crack applications or hand applied.

5.] Cleaning.

All equipment can be cleaned using water and mechanical action.

6.] Useful information

Black non-slip Flexiseal can be over coated with any coloured Acrylic roof coating should a colour other than black or grey be required. The bond between the Flexiseal and Acrylic roof paint is excellent.

Recommended Machine supplier is Edward Seale in Kew. Contact: Alan Hornby

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T's & C's

For PROFESSIONAL USE and should be applied by professional and skilled workforce only.

The information supplied is believed to be reliable. However as we have no control over the application of the product we cannot guarantee results to be obtained. Users assume all risks and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. No guarantee is expressed or implied

