

# Urochem 614

## ONE-PART, MOISTURE CURED, SOLVENT-BASED, POLYURETHANE SEALER & PRIMER

### DESCRIPTION

**Urochem 614** is a single-pack, moisture cured polyurethane coating/primer based on an aromatic pre-polymer. The product is characterised by exceptional toughness and good flexibility. The rate of cure is influenced more by humidity and film thickness than temperature. Adhesion to most sound, suitably prepared surfaces is good and inter-coat times should not exceed 12 hours. As the product is based on an aromatic isocyanate, it will yellow and weather upon exposure to sunlight. This product displays good all-round chemical resistance.

### PRODUCT APPLICATION

Used as a tough flexible water-resistant primer or coating on surfaces exposed to damp and moisture and where all round toughness is a requirement. It does possess some anti-graffiti properties.

### SURFACE PREPARATION

- All surfaces must be clean, sound, and dry before application. Remove all loose material and ensure that there is no contamination by oils, grease, curing compounds etc. Steel surfaces must be blasted to at least SA 2.5, before applying a coat of a suitable anti-corrosive primer – **Urochem 617**.
- Ensure that all laitance has been removed from concrete surfaces and any omegas and other defects have been filled and patched with a suitable epoxy compound – **Urochem 220**.

### APPLICATION

- Brush, enamel roller or spray. A minimum of two coats is recommended.
- Overcoat within 4 hours.

### COVERAGE

|         |                                                               |
|---------|---------------------------------------------------------------|
| Primer  | Approximately 1 Lt of <b>Urochem 614</b> to 24 Lt of sealant. |
| Coating | 7 – 10m <sup>2</sup> per Lt dependent on substrate            |

No allowance has been made for wastage.

### CLEANING

Clean all equipment immediately after use with **Urochem 901**, as once the coating has polymerized it may only be removed mechanically.

### SAFETY

Contains organic solvents which are flammable. Do not use in confined spaces. Ensure adequate ventilation and the absence of any ignition source. Wear protective clothing. In case of eye contact wash well with water and obtain medical advice.

Please refer to product MSDS for further information.



#### Urochem Trading (Pty) Ltd

Unit XP2, AEL Industrial complex, Cnr Ecqip and Weighbridge  
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### CHEMICAL RESISTANCE

| Chemical:                 | Result |
|---------------------------|--------|
| Acetic Acid (20 %)        | I      |
| Acetone                   | NR     |
| Aluminium Chloride        | I      |
| Aluminium sulfate         | I      |
| Aluminum sulfide          | R      |
| Ammonia, anhydrous        | R*     |
| Ammonium hydroxide        | R      |
| Amonium thiocyanide       | I      |
| Barium hydroxide          | R      |
| Benzene                   | NR     |
| Borax                     | R      |
| Boric Acid                | R      |
| Butane                    | R      |
| Calcium bisulfite         | R      |
| Calcium chloride          | R      |
| Calcium hydroxide         | R      |
| Calcium hypochlorite (5%) | NR*    |
| Carbon dioxide            | R      |
| Carbon monoxide           | R      |
| Carbon Tetrachloride      | NR     |
| Castor oil                | R      |
| Chlorine gas (dry)        | NR*    |
| Chlorine gas (wet)        | NR     |
| Chromic acid (10-50%)     | NR     |
| Copper chloride           | A      |
| Copper nitrate            | I      |
| Copper sulfate            | R      |
| Cottonseed oil            | R      |
| Cyclohexane               | R      |
| Ethyl acetate             | NR     |
| Ethyl alcohol             | NR     |
| Ethylene glycol           | I      |
| Ferric chloride           | I      |
| Ferric nitrate            | I      |
| Ferrous chloride          | I      |
| Ferrous sulfate           | I      |
| Formaldehyde (37%)        | NR     |
| Formic acid               | NR     |
| Gasoline                  | I      |
| Glue                      | R      |
| Glycerin                  | R      |
| n-Hexane (50 °C)          | I      |
| Hydraulic oils            | I      |
| Hydrochloric acid (20%)   | I      |
| Hydrochloric acid (37%)   | NR     |
| Hydrocyanic acid          | I      |
| Hydrogen                  | R      |
| Hydrogen Peroxide (90%)   | R*     |
| Isooctane (79 °C)         | I      |
| Isopropyl ether           | I      |
| Kerosene                  | I      |
| Lacquer solvents          | NR*    |
| Linseed oil               | I      |
| Lubricating oils          | I      |

| Chemical:                 | Result |
|---------------------------|--------|
| Magnesium chloride        | R      |
| Magnesium hydroxide       | R      |
| Mercury                   | R      |
| Methyl Alcohol            | NR     |
| Methyl ethyl ketone       | NR     |
| Methyl pyrrolidine        | NR     |
| Mineral oil               | R      |
| Naptha                    | I      |
| Napthalene                | I      |
| Nickel salts              | NR     |
| Nitric acid (10%)         | NR     |
| Oleic acid                | I      |
| Palmitic acid             | R      |
| Perchloroethylene         | NR     |
| Phenol                    | NR     |
| Phosphoric acid (10-70%)  | R      |
| Phosphoric acid (85%)     | NR     |
| Potassium cyanide         | I      |
| Potassim hydroxide        | I      |
| SAE #10 oil (70 °C)       | R      |
| Sea water                 | R      |
| Sea water                 | I      |
| SKYDROL 500               | NR     |
| Soap                      | R      |
| Sodium cyanide            | I      |
| Sodium hydroxide (20%)    | R      |
| Sodium hydroxide (46.5%)  | I      |
| Sodium hypochlorite (20%) | NR     |
| Sodium hypochlorite (5%)  | NR     |
| Soybean oil               | I      |
| Stearic acid              | R      |
| Sulfur dioxide (liquid)   | R*     |
| Sulfur dioxide (gas)      | R*     |
| Sulfur trioxide           | R*     |
| Sulfuric acid (5-10%)     | NR     |
| Sulfuric acid (10-50%)    | NR     |
| Sulfuric acid (50-80%)    | NR     |
| Sulfurous acid            | NR     |
| Tannic acid (10%)         | R      |
| Tartaric acid             | R      |
| Tin salts                 | I      |
| Titanium salts            | I      |
| Toluene                   | NR     |
| Trichloroethylene         | NR     |
| Tricresyl phosphate       | I      |
| Trisodium phosphate       | R      |
| Tung oil                  | I      |
| Turpentine                | NR     |
| Water (48 °C)             | R      |
| Water (100 °C)            | NR     |
| Xylene                    | NR     |

R = Compatible, I = Intermediate, NR = Not recommended  
\* = Outcome suspected. No test performed



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### TYPICAL PROPERTIES – AS PER UROCHEM QC

The below properties are based on in-house testing methodologies.

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <b>Mixing Ratio</b>         | Single component                           |
| <b>Practical Cure</b>       | 24 Hours @ 25°C                            |
| <b>Full Cure</b>            | 7 Days                                     |
| <b>Chemical resistance</b>  | See chart below                            |
| <b>Colour</b>               | Grey, limited others                       |
| <b>Density</b>              | 0,98                                       |
| <b>Solids Content</b>       | 50%                                        |
| <b>Theoretical coverage</b> | 7 - 10m <sup>2</sup> per Lt                |
| <b>Shelf Life</b>           | 12 Months, depending on storage conditions |
| <b>Application Temp.</b>    | 5 to 35°C                                  |
| <b>Service Temp.</b>        | -25°C to 80°C                              |
| <b>Pack Size</b>            | 500ml, 1 Lt, 5 Lt, 25 Lt                   |
| <b>Cleaning</b>             | <b>Urochem 901</b>                         |
| <b>Storage</b>              | Store in a cool dry place                  |

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