DESCRIPTION:

Rimseal 1000 is a single component, ultra-low viscosity, polyurethane based resin with Hydrophilic properties. Rimseal 1000 rapidly reacts with water to form soft, open cell foam of high density. The reacted foam becomes highly elastic, rubber-like, and has strong adhesive strength to wet surfaces. Due to the low viscosity, Rimseal 1000 offers superior penetration in hairline crack injection.

TYPICAL APPLICATIONS:

Rimseal 1000 provides a rapid solution against the ingress of water in the following situations:
- Defective Concrete Pipe (Cracked or Honeycombed)
- Leaks in underground structures
- Concrete Joints
- Limestone
- Brick Construction
- Pipe Penetrations
- Waste Water Tanks
- Sewers, Manholes
- Utility Boxes
- Tunnels, Dams

Rimseal 1000 is particularly effective in situations effected by expansion and contraction or subjected to vibration.

KEY BENEFITS:
- Single Component
- Rapid Expansion (salt/mineral water)
- Highly Elastic
- Ultra Low Viscosity
- High Adhesion even to wet surfaces
- Solvent Free, Environmentally safe
- Resistant to most organic solvents, mild acids and alkalis.

After injection has taken place, Rimseal 1000 will foam rapidly to fill the void forming a dense, impermeable elastomeric seal, blocking the flow of water.

PHYSICAL PROPERTIES:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Brown Transparent Liquid</td>
</tr>
<tr>
<td>MIXING RATIO</td>
<td>Single component</td>
</tr>
<tr>
<td>VISCOSITY @ 25°C</td>
<td>170 ± 50 CPS</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.1 ± 0.1</td>
</tr>
<tr>
<td>ELONGATION %</td>
<td>&gt;150%</td>
</tr>
<tr>
<td>FOAMING RATE</td>
<td>&gt;1200%</td>
</tr>
<tr>
<td>PACKAGING</td>
<td>20Kg/10Kg</td>
</tr>
</tbody>
</table>

REACTION TIMES:

<table>
<thead>
<tr>
<th>TEMPERATURE °C</th>
<th>5</th>
<th>15</th>
<th>25</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foaming Starts (sec)</td>
<td>15</td>
<td>10</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Foaming Ends (Sec)</td>
<td>170</td>
<td>145</td>
<td>92</td>
<td>67</td>
</tr>
<tr>
<td>Foaming %</td>
<td>1150</td>
<td>1430</td>
<td>1650</td>
<td>1700</td>
</tr>
<tr>
<td>Viscosity</td>
<td>340</td>
<td>250</td>
<td>150</td>
<td>110</td>
</tr>
</tbody>
</table>

INSTALLATION:

Rimseal polyurethane grouts are injected (pumped) through injector ports generally termed “packers” inserted into the substrate. Variables such as crack width, substrate thickness and quality require differing pressures from as low as 3000 to 4000 psi.

The Rimseal Auto injector is the ideal, cost effective, light weight (13kg), portable medium, delivering a recommended pressure of 3500 psi with a maximum capacity of 7500 psi.

SURFACE PREPARATION:

Remove surface contaminants such as mineral deposits created by long term water leakage and any other that obscure the damaged area (crack). If the crack is clearly visible generally cleaning is not required.

DRILL HOLES:

Select the desired drill bit and corresponding diameter packer. In most situations a hammer drill fitted with a 10 x 300 x 36mm masonry drill bit and 10mm diameter x 80 – 100mm long packer will suffice. Locate rebar and conduits to minimize damage to the drill bit and potential spalling of the concrete. Determine a drilling pattern based on hole size, angle of drilling and depth. Drill holes in a staggered pattern each side of the concrete is less than 1200mm thick and holes perpendicular to the concrete surface directly in to the crack. Distance between holes can vary by 150mm to 900mm depending on the situation. Avoid drilling to close to the crack to prevent spalling.

INSTALLING PACKERS:

Insert the packer into the hole to a depth two thirds of its length. Using the T-Bar wrench, a socket or open wrench, tighten the packer turning clockwise until sufficiently secure. Avoid over tightening as this may damage the locking mechanism.

FLUSHING THE CRACK WITH WATER:

Sometimes it is necessary to flush the crack with water to remove debris and drill dust. In a situation where the substrate is very dry and or dependent upon the type of injection resin, it is desirable to flush the crack with water.
in order to prime the crack for the resin and improve penetration of the product throughout the crack. Flushing can be achieved by a simple low pressure pump with a capacity of 200-300 psi.

DO NOT USE WATER WITH THE GROUT PUMP

PACKAGING:

20Kg and 10Kg

STORAGE/SHELF LIFE:
Recommended temperature for storage is minimum 10˚c to maximum 25˚c. Keep dry and out of direct sunlight. To maximise shelf life store in a cool environment. Product is packaged with nitrogen gas to maximize shelf life (up to 12 months) however once seal is broken use as soon as possible.

HEALTH AND SAFETY:
Rimseal 1000 should only be used as directed. Before handling material, please refer to the material safety data sheet (M.S.D.S). Our recommendations for protective equipment should be strictly adhered to, to ensure personal protection.

M.S.D.S is available upon request from Adcrete Industries or your local Rimseal supplier.

The information presented in this data sheet does not imply any warranty. Further, the maker reserves the right to alter the product, the specification and/or the application techniques as described herein without prior notice, in line with his policy of technological advancement and product improvement. Whilst any information and/or specification contained herein is to the best of our knowledge and experience, all of the above information must in every instance be taken as merely indicative and subject to confirmation after long-term practical applications. For this reason, anyone intending to use the product must ensure beforehand its suitability for the envisaged application. In every instance, the user alone is fully responsible for any consequences deriving from the use of the product. Furthermore, no warranty is given or implied in connection with any recommendations or suggestions made by us or our Representatives, Agents or Distributors as conditions of use and any labour involved beyond our control.

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