

EPIGEN 1311 HIGH BUILD EPOXY COATING

SPD-373
REV 4-993

DESCRIPTION	<p><i>Epigen 1311</i> is a solventless, high build protective coating, designed to combat corrosive conditions in tanks, wells, structural members and fluid transfer systems. It cures at ambient temperatures to form a tough, semi-flexible coating possessing good chemical resistance and U.V. stability, adhering strongly to suitably prepared metal, wood and concrete surfaces.</p> <p><i>Epigen 1311</i> is approved for use in potable water situations by the Health Department of Western Australia, conditional to the manufacturers directions being followed. (Tested to AS 4020).</p>																				
FEATURES	<ul style="list-style-type: none"> * Epoxy resin base - Excellent adhesion to a variety of substrates. * Non toxic - Safe for use in potable water situations. * Good flexibility - Tolerant of substrate movement. * White base - Heat reflective * Solventless - Reduced flammability and health hazards during application. * Cycloaliphatic Amine Curative - Excellent resistance to a variety of chemicals. 																				
APPROVALS	<p>Approved for use in potable water applications</p> <ul style="list-style-type: none"> * N.S.W. Water Board * W.A. Health Department * Tested to AS 4020 																				
PERFORMANCE	<p><i>Epigen 1311</i> has, over many years of ongoing use, continued to prove itself as a coating suitable for the protection of concrete, steel and timber from corrosive effects. <i>Epigen 1311</i> is resistant to sea water, mineral acids and alkalis, hydrocarbons, oil and fuel, and is suitable in applications where fine particulate matter may be present. Pipe work, pumps and other miscellaneous fluid transfer fittings, liquid storage facilities, processing tanks, structural steel work, dam walls and air conditioning ducting are all examples of the service <i>Epigen 1311</i> has been used in with excellent performance and long term integrity.</p> <p>For detailed recommendations regarding a specific application, contact with the manufacturer should be made.</p>																				
PRODUCT PROFILE	<table border="0"> <tr> <td>Mixing Ratio:</td> <td>2 parts Component A to 1 part component B.</td> </tr> <tr> <td>Consistency:</td> <td>Viscous liquid</td> </tr> <tr> <td>Colour:</td> <td>White</td> </tr> <tr> <td>Specific Gravity:</td> <td>1.4 ± 0.05</td> </tr> <tr> <td>Non Volatile Matter:</td> <td>100%</td> </tr> <tr> <td>HDT:</td> <td>Approximately 70°C</td> </tr> <tr> <td>Pot life:</td> <td>60 minutes @ 20°C</td> </tr> <tr> <td>Set Time:</td> <td>6 hours @ 20°C</td> </tr> <tr> <td>Full Cure:</td> <td>Achieved within 5 days @ 20°C</td> </tr> <tr> <td>Coverage:</td> <td>0.7kg/m² @ 500 micron (DFT)</td> </tr> </table>	Mixing Ratio:	2 parts Component A to 1 part component B.	Consistency:	Viscous liquid	Colour:	White	Specific Gravity:	1.4 ± 0.05	Non Volatile Matter:	100%	HDT:	Approximately 70°C	Pot life:	60 minutes @ 20°C	Set Time:	6 hours @ 20°C	Full Cure:	Achieved within 5 days @ 20°C	Coverage:	0.7kg/m ² @ 500 micron (DFT)
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Note: No thinning of product shall be carried out to extend pot life, or when using this product for potable water instances.

EPIGEN 1311 (Cont)

SURFACE PREPARATION

In line with all cases where good adhesion is required, the substrate should be clean and free from loose particles and foreign matter. Substrates should be prepared with consideration given to the types of materials to be removed, the finish desired and the ease of obtaining the desired result. Ultimately, blasting, or grinding are all preparation techniques that may be used in selected areas.

MIXING DIRECTIONS

The mixing ratio for **Epigen 1311** is 2 parts of A to 1 part of B, by weight. Prior to mixing, each component should be stirred independently to redisperse completely any settled material. Empty all the contents of Component A into a separate container and to it add all the contents of Component B. Mix thoroughly with a stirrer for 3 minutes ensuring the resultant mix is homogenous and without streaks. Pour off the mixed components into a shallow container before use to extend the pot life. Use complete kits wherever possible. If part kits are to be used, ensure the original containers are resealed tightly.

APPLICATION

The mixed **Epigen 1311** may then be applied using a brush, roller or spray to the designated area. In some circumstances, the viscosity of **Epigen 1311** may warrant the addition of a diluent to assist in application. This has been found to be the case, particularly when using spray apparatus where the equipment may not have the capacity to handle a high build, high solids coating such as **Epigen 1311**. The addition of not more than 10% Epigen Diluent is permissible but should be done only in the charge of experienced operators. When using rollers, avoid the use of long hair or foam rubber types. Short nap mohair rollers have been found to be the most appropriate. It is recommended that 2 coats of **Epigen 1311** be applied as a minimum in line with conventional good coating practices.

FOR USE IN POTABLE WATER INSTANCES

1. Use should be carried out by mixing the minimum kit size of 1.5kg.
2. No foreign additions (eg: solvent, pigment etc) shall be allowed. Use as supplied.
3. Allow the mixed product to stand for 10 minutes prior to use.
4. Allow the applied coating to cure for a minimum period of 3 days.

HELPFUL HINTS

- # Best results are achieved when the ambient temperature is 18 - 30°C.
- # Do not add solvents to extend pot life or retain viscosity.
- # Allow material to sit for 15 minutes after mixing and before use in cool environments.

CLEANING

Prior to curing, **Epigen 1311** should be cleaned from all tools and equipment using Epigen Diluent. Soap and water or a good quality hand cleaner may also be used. Do not use solvents to clean contaminated areas of the body, such as hands etc.

STORAGE

Store both components out of direct sunlight and away from heat since warm compound will severely reduce the pot life. Whilst the shelf life of the individual components is indefinite in their original unopened containers, prolonged storage may result in some settling and attention should be paid to this when mixing.

SAFETY

Protective gloves, coveralls and glasses should be worn when using epoxy resins and their curing agents. If eye irritation occurs hold eye open and irrigate with water for 15 minutes and see a Doctor. Should skin contact occur wash contaminated areas with soap and water. Avoid the use of solvents as a person cleaning aid. Contaminated clothes should be laundered before re-use. When working in confined or enclosed areas, introduce a source of ventilation (eg: exhaust fan).

WARRANTY

The information contained in this data sheet, is to the best of our knowledge true and correct, but recommendations are made without guarantee, since conditions of use are beyond our control. Furthermore, nothing contained herein should be construed as a recommendation to use this product in conflict with existing patents.

EPIGEN EPOXY RESIN BASED PRODUCTS
MANUFACTURED BY PEERLESS INDUSTRIAL SYSTEMS