

**DESCRIPTION**

PENNGARD is a water based, single component anti-corrosive membrane for all metals. It is presently being used in highly corrosive environments to protect metals from premature deterioration.

PENNGARD forms a thick flexible membrane which stretches like elastic and is easily applied by brush, roller or spray. Shot blasting and other expensive pre-treatments are not essential for rusted metals. **PENNGARD** is designed for use over rusted metal on site where wire brushing is the only practical approach. It can be applied to existing sound painted surfaces without the need of stripping or priming.

PENNGARD eliminates additives, catalysts, fumes, fire or toxic hazards and has excellent resistance to alkalis and acids. Being ideal for exposure in marine and chemical environments. **PENNGARD** is highly resistant to infra-red and ultra-violet radiation. A 2,500 hour weathering test showed no evidence of breakdown, and heat aging tests showed no tendency to embrittlements.

PENNGARD can be supplied in any colour, and being a single component is used straight from the can.

For further information concerning application, consult the application data sheet.

SURFACE PREPARATION**FERROUS METAL - RUSTY STEEL, IRON, SHEET METAL**

Make sure that the surface is free from contamination such as oil or grease, completely remove loose rust and scale by either mechanical means or wire brushing. It is not necessary to metal prime areas of sound bonded paintwork which should be well keyed by sanding, but all exposed metal must be touched up with ferrous metal primer. If the metal is in good condition and free from pitting or heavy rusting, then one full coat of ferrous metal primer will be sufficient. If, on the other hand, there is deep pitting through heavy rusting, two separate coats of ferrous metal primer will be required. If a continuous coat of ferrous metal primer is not applied, rust spotting may take place due to the water content in the **PENNGARD**.

NON-FERROUS METAL -ALUMINUM, ZINC, COPPER, LEAD & ALLOYS ETC.

Any oxidization must be removed by sanding, wire brushing or mechanical abrasion. Soft materials such as lead, can be very easily wire brushed to provide a good key. Clean, new aluminum and galvanized metal may be primed without sanding using a zinc chromate-phosphoric acid etch primer. When dry **PENNGARD** is applied in the recommended manner.

CLEAN NEW FERROUS METAL

In the absence of any rust formation, the surface must be clean and free from any oil or grease before the application of ferrous metal primer.

NON-BLEEDING BITUMEN OR TAR COVERED METAL

If the surface is firm and free from tackiness, apply a coat of bitumen primer and allow to dry.

PREVIOUSLY PAINTED OR PRIMED METAL

Loose paint must be scrapped away and existing paint surfaces should be thoroughly scraped to obtain a mechanical key. Areas that have suffered deep pitting should be given two coats of ferrous metal primer before coating with **PENNGARD**.

OVERCOATING OLD PENNGARD

Clean the surface and then apply a single coat of A.P. sealer and allow to dry before applying **PENNGARD**.

CLEANING BRUSHES, ROLLERS & SPRAY EQUIPMENT

Wet **PENNGARD** may be removed from equipment with water. Use **XYLOL** for removing dried **PENNGARD**.

**METHOD OF APPLICATION****SPRAYING**

PENNGARD can easily be sprayed using most types of industrial equipment. Care should be taken to ensure that the correct coverage rate is achieved.

BRUSHING & ROLLING

The correct way to apply **PENNGARD** is to lay on the first layer and brush or roll in one direction only. The second layer is then laid on and finished in a similar manner at right angles to the first after it has dried. **DO NOT APPLY PENNGARD WHEN THE TEMPERATURE IS CLOSE TO FREEZING OR IN DAMP AND RAINY WEATHER. PROTECT FROM FROST AND FREEZING MAY DESTROY UNCURED COATINGS OR ANY MATERIAL EXPOSED IN CANS.**

COVERAGE

Every gallon of **PENNGARD** will give a **TOTAL** maximum coverage of 100 sq.ft. Two layers must be applied and each layer must not cover more than 200 sq.ft. per gallon. Primers and sealers will cover between 200-300 sq.ft. per gallon.

NOTE: Rough or pitted surfaces will reduce the coverage of **PENNGARD**.

DRYING TIMES

Normal applications, under ideal conditions, will dry in about two hours when the next coat can be applied. In cold conditions, a partial cure will be obtained in a few hours, but a total of 24 hours should elapse between the two layers. Avoid uneven thickness when applying **PENNGARD**.

WARRANTY

PennKote Ltd. warrants its products against manufacturing and material defects. PennKote will, for a period of two years from the date of application, supply replacement material for product proven to be defective. This warranty is in lieu of any and all other warranties expressed or implied. Pennkote Ltd. and any Distributor or Retailer of this product accept no liability for incidental or consequential damage due to defective material or improper installation. The user shall determine the suitability of this product for intended use.