

Buried Pipelines & Fittings ● Above Ground Structures & Pipework

Marine Jetty Pile Supports ● Tie Bars ● Post-Tensioned Rods & Cables



**80 Years of Totally Effective**

**Surface Tolerant**

**Tape Coating Solutions**

# Steel Assets - Long-term Corrosion Control

## New Construction & Maintenance/Refurbishment

### Introduction

Long-term corrosion control is the essential economic factor of a selected protective coating. Cost effectiveness should be measured by the final or total cost of the applied corrosion protection system per square metre or per square foot of steel surface protected, per year.

### The Problem:

High quality steel surface preparation utilising dry abrasive blast cleaning methods is not always possible due to environmental grit and dust contamination as well as difficult in-situ application conditions. Lower quality steel surface preparation methods can adversely affect surface profiles and leave deposits of rust, moisture and chlorides on the steel surface which shorten the effective service life duration of conventional protective coatings.

### The Solution:

When applied to steel surfaces prepared to a low quality cleaning standard, Denso Petrolatum Tape systems provide optimum surface tolerant coating properties and are capable of providing totally effective corrosion protection for a longer duration than a conventional coating system applied to an abrasive blast cleaned surface.

### Case History Projects:

Proven case histories of Denso Petrolatum Tape coatings for buried pipe and fittings as well as above ground structural steel and pipework, date back more than 75 years and are available on request. Project examples of Marine jetty piles, bridges and structures are shown below.

## Marine Jetty Pile Supports



Marine growth removed by hand power tool. Petrolatum based Denso Marine Piling Tape is unaffected by high levels of chlorides and can be applied to submerged piles in fresh or sea water conditions. The tape also ensures a controlled thickness over all profiles.

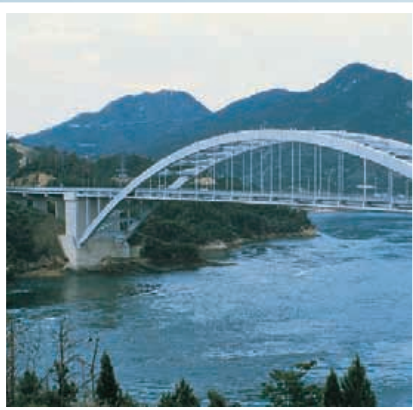


Tough outer jacket armoring installation over the applied tape in the tidal zone. Jackets pre-lined with Denso Marine Piling Tape can also be provided when rapid application is required.



Random inspections are often carried out every 3 years (shown above). After unbolting the jacket, the Marine Piling Tape is easily removed for inspection. Refitting the tape and jacket is economical as there is no surface preparation required.

## Bridges and Structures



River, estuary, harbour and atmospheric contamination caused by abrasive blast cleaning can be avoided. Denso Petrolatum Tape coatings applied to hand cleaned steel can provide totally effective corrosion protection for a 50 year period.



Low quality surface preparation is normally carried out by either hand power tool or High-Pressure Water-jetting methods. Denso Hi-Tack Tape & Primer accommodate thin layers of rust, moisture entrapment, smooth or rough surfaces and chemical contamination.



Denso Hi-Tack Tape & Primer application to all steel surface areas of a huge gantry crane. The Denso topcoat applied by brush or spray method over the Denso Hi-Tack Tape, quickly sets to form an extremely tough, uv resistant system.

# Denso Petrolatum Tape & Armouring Selection Guide:

The Denso Petrolatum Tape & Armouring Selection Guide is divided into 3 categories for ease of reference. Only the range of Denso tapes and outer armourings are shown (no primers or sealing pastes or mastics are included). For full technical product information, please contact your nearest Denso subsidiary listed on the back page.

## Category 1 - Buried Pipelines & Tie-bars



### Optional Innerwrap Tapes:

- Denso Tape** - for temperate climates
- Densyl Tape** - for tropical climates
- Denso LT Tape** - for very cold temperatures

### Optional Outer Armourings:

- PVC Self-Adhesive Tape** - Medium Duty outerwrap for all climates and temperature conditions
- Denso Glass Outerwrap** - Heavy Duty outerwrap for all climates and temperature conditions

## Category 2 - Exposed Structures & Pipework



### Structural Steel:

- Denso Hi-Tack Tape** - high adhesion and uv resistance

### Pipework

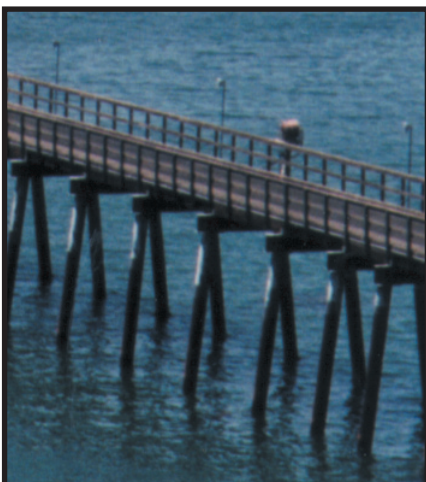
#### (Optional Tapes):

- Denso Hi-Tack Tape** - high adhesion and uv resistance
- Densyl KF Tape** - where fire resistance is important
- Denso Hotline Tape** - for elevated operating temperatures
- Denso ColourTape** - for colour coding when outer armourings are not required

### Optional Outer Armourings:

- Reinforcing Tape & Acrylic** - reinforced water based topcoat
- Elastomeric Topcoat** - spray applied urethane

## Category 3 - Jetty Piles & Superstructures



### Tidal Zone - SeaShield Systems

- Denso Marine Piling Tape** - for all tidal zone areas
- Armourings: 100** - Medium Duty jacket, sheltered areas
- (optional) 2000 H.D.** - Heavy Duty jacket
- 2000 R** - 'Rapid' installation requirements (this jacket is pre-lined with tape)

### Above Tidal Zone - SeaShield & SeaShield SS Systems

- Denso Hi-Tack Tape** - for all areas above the tidal zone
- Armourings: 2000 F.D.** - heat & uv stable jacket
- Elastomeric Topcoat** - spray applied urethane

## Denso Petrolatum Tape Coating Systems - Main Features Summary:

### Environmental / Health & Safety

- Dust and grit contamination can be avoided as dry abrasive blasting is not essential
- VOC compliant

### Life Cycle Costs

- Low cost / per area coated / per year of service

### Optimum Surface Tolerant Properties

#### Accommodates:

- steel surfaces contaminated with chlorides (soluble salts)
- thin layers of tightly adhered rust
- steel surfaces coated with ageing lead paint
- smooth or rough steel surfaces
- high humidity and condensation
- steel pipe and jetty pile surfaces submerged under sea water

### Long-term Warranties

- Meaningful long-term warranties can be provided for customer peace of mind.

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