DENSO ANTI-CORROSION TAPES, MASTICS, EPOXIES & RESIN SYSTEMS FOR:

- **PIPPINES**
  Full Length Protection with High Performance Tapes & Epoxies
  Protection of Buried, Subsea & Above Ground Lines
  Application by Hand or Machines (Available from Winn & Coales)

- **FIELD JOINTS & FABRICATED SECTIONS**
  Long Term Protection with Tape, Epoxy or Shrink Sleeve
  Repair of Damaged Factory Coatings

- **PIPELINE REHABILITATION**
  Refurbishment of Corroded Lines & Joints with Tape or Epoxy

- **FLANGES, COUPLINGS & VALVES**
  Protection to P1 / P2 with Petrolatum Tape, PVC / Bitumen Tape or Epoxy

- **PIPE AT UP TO 180°C**
  Protection with High Performance Glass Flake Epoxy Coating

- **PIPE & VALVE LINING**
  Protection with Glass Reinforced Resin Systems

- **STEEL & CONCRETE STORAGE TANKS (& CONCRETE FLOORS / BUND AREAS)**
  Coating, Lining & Relining with Glass Reinforced Resin Systems

- **LARGE MOUNDED STORAGE VESSELS**
  Protection with High Performance Glass Flake Polyester

- **PLATFORM STRUCTURES, PLATFORM LEGS & RISER PIPES**
  Protection with High Performance Glass Flake Polyester

- **STEEL AND CONCRETE JETTY PILE PROTECTION & MAINTENANCE**
  Protection with SeaShield Jacketing System or Rigspray

- **BRIDGE STAY CABLES, TIE BAR, POST TENSIONING CABLE & GROUND ANCHORS**
  Protection with Injected Petrolatum Compound & Petrolatum Tape

- **STRUCTURAL STEEL PROTECTION & MAINTENANCE**
  Protection with High Performance Bitumen / Acrylic Tape or Surface Tolerant Epoxy, Blast Cleaning Not Required

- **DUCT SEALING**
  Watertight & Gas Proof Sealing with Petrolatum Mastic

- **FOUNDATION, BASEMENT, ROOF & RESERVOIR ROOF WATERPROOFING**
  Protect with Tough Self Adhesive Waterproof Membrane Sheeting

- **TANKING / WATERPROOFING OF TILED BATHROOMS, SHOWERS & KITCHENS**
  With Specialist Flexible Rubber Bitumen Jointing Compounds

> SIMPLE SURFACE PREPARATION > COLD APPLICATION, FAST APPLICATION
> LONG LIFE, PROVEN PERFORMANCE > NO SPECIAL SKILLS REQUIRED
> SUITABLE FOR ALL CLIMATES > WORLD-WIDE BACKUP AVAILABLE
> TECHNICAL DATA SHEETS, MATERIAL SAFETY DATA SHEETS & DRAFT SPECIFICATIONS AVAILABLE
> SEND US FULL DETAILS & WE CAN RECOMMEND THE MOST SUITABLE SYSTEM & ESTIMATE THE AMOUNT OF MATERIAL REQUIRED

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Long-term Corrosion Protection for Buried Steel Pipelines, Fittings & Specials

Denso Petrolatum, Bitumen & Butyl Tapes & Protal Liquid Coatings

1929 - 2009
80 Years of Pipeline & Steelwork Protection
Customer Peace of Mind
Free advice for correct material selection, surface preparation and coating application criteria, is provided by qualified professionals at either Denso or their appointed agents.

Main Advantages of the Denso Tape Coating Systems
Dry abrasive blast cleaning to a high quality near white finish standard. Densoclad, Densopol and Denso Butyl tape systems as well as Denso Tape petrolatum systems are surface tolerant and are suitable for application despite a low quality surface preparation standard.

- Minimum controlled coating thickness as all tapes are factory regulated.
- No delays. Immediate mechanical and corrosion protection is obtained
- Excellent cathodic disbonding resistance
- Tapes can all be applied by hand, hand machine or rolling rig methods.

Description - Densoclad, Densopol and Denso Butyl Systems

Densoclad and Densopol Systems
Thick pvc backed Densoclad and Densopol bitumen tapes are used in conjunction with a primer and can be applied with a 55% overlap to achieve double thickness in one operation. Temperate and Tropical grades are available to suit all site conditions.

Denso Butyl Systems
Thinner polyethylene backed Denso Butyl Tapes are also used in conjunction with a primer and are particularly suited for long-line projects for very fast automatic machine application alongside or over the ditch. A separate outerwrap is normally applied at the same time. Standard temperature and high temperature grades are also available.

Cost-effective Corrosion Protection
Denso Tape

Petrolatum Systems

Based on petrolatum, Denso Tape is suited for all types of pipe and is normally used in conjunction with Denso Priming Paste. For profiling flanges, couplings, valves and spigot joints there is a choice of either a standard Densyl Mastic or a lightweight, low density Denso Profiling Mastic. To complete the system, Denso Self-Adhesive PVC Tape or a Denso bitumen tape provides an ideal outer protective armouring.

Denso Tape is also available in a low temperature (L.T.) grade and a marine grade for the protection of jetty piles.

Denso Profiling Mastic

- Quick and easy to apply
- Comforms, fills and seals all awkward shapes and void areas
- Non drying
- Non shrinking

Optimum Surface Tolerant Systems
A comprehensive range of tape wrapping machines are available to enable fast and consistent high quality application. Use of the machines ensures consistent tension and accurate overlap of the tape at all times.

Main Features:

- Hand powered as well as powered rolling rig versions available
- Consistent tape tension always achieved
- Accurate tape overlap always achieved
- Automatic removal and gathering of tape interleaving
- Fast application
A range of epoxy coatings designed for application to abrasive blast cleaned steel pipe, welds, tie-ins, fittings etc.

**Main Features:**
- High build achieved in only one coating operation
- Very fast curing liquid applied coatings
- Designed for the external protection of all line-pipe, fittings, specials and storage vessels
- Excellent cathodic disbonding resistance
- Standard high quality abrasive blast cleaning surface preparation
- Can be applied by either brush, roller or spray methods
- Protal Repair Cartridge Kits with a dispensing gun are available in all Protal grades. Economical with minimal wastage - very quick and easy to apply

**Protal 300 System**
A patented ‘weld-joint’ epoxy coating system that bonds exceptionally well to polyethylene shop coated pipe.

Protal 7200 is used in conjunction with Denso Superbond Adhesive to provide a very fast curing, protective system for three layer PE coated pipe joints.

Service temperature -34°C to +85°C (-29°F to +185°F)
Protal 7000

High build, pipeline coating.

A solvent free two-pack epoxy coating that can be hand or spray applied to the exterior surfaces of grit blasted steel pipe, pipe welds, coastal installations valves and industrial equipment.

Exhibits excellent cathodic disbondment properties.

- Approved by Transco in the UK

Protal 7000 Airless Spray

High performance epoxy coating.

Solvent free, two pack, high build, high performance epoxy coating which is applied with conventional airless spray equipment.

Protal 7000 X

A lower cost alternative.

Protal 7000 X is an extremely durable glass flake reinforced polyester coating that can be easily applied in one coat by airless spray method, at a minimum thickness of 1mm in normal ambient temperature conditions.

This heavy duty coating also cures very quickly to form a very tough cost-effective solution for long-term protection.
Protal 7125
Fast cure, low temperature pipeline coating - winter grade.
A low temperature coating that can cure at -20°C (-4°F). The coating can be backfilled in 30 minutes at 10°C (50°F).
Used for girth welds, tie-ins, rehabilitation, repairs to FBE and sacrificial coating to FBE.

Protal 7200
High build, fast cure pipeline coating.
A fast cure one coat epoxy coating that can be hand or spray applied to girth welds, tie-ins, fittings and rehabilitation of existing pipelines.
Exhibits excellent cathodic disbondment properties at 80°C (175°F).

Protal 7900
High temperature pipeline coating.
A high build epoxy coating that can be hand applied to girth welds, tie-ins, fittings and rehabilitation of existing pipelines.
Maximum operating temperature up to 120°C (250°F).
At Last - a Cost-effective Solution to the Problem of Tank Base Corrosion!

Problem Solved -
The Denso Steelcoat Tank Base Protection System

Due to various design issues and operating conditions, the external base area of steel storage tanks is vulnerable to corrosion problems. This is due to thermal and/or physical movement of the tank which causes cracking and is compounded by precipitation that runs down the side of the tank collecting and laying in the same area. Water contaminants then enter any cracks between the concrete and steel, causing a steady deterioration of both materials.

The Denso Steelcoat Tank Base Protection System

Denso have developed an effective solution called the Denso Steelcoat Tank Base Protection System. The system seals the vulnerable area with a flexible but tough outer-armouring which is also highly weather resistant.

System Benefits:
- Easy to apply
- Minimum surface preparation required
- Flexible, allows for tank movement
- Seals and deflects water
- Long-lasting solution to the problem
- Topcoats available in a choice of colours

Denso Hi-Tack Primer
1st layer - Denso Hi-Tack Tape
2nd layer - Denso Ultraceal RT Tape
Densyl Mastic
Denso Primer D