

DENSO P1 SYSTEM™

A HIGH PERFORMANCE DENSO MASTIC & TAPE WRAP SYSTEM FOR THE PROTECTION OF PIPELINE FITTINGS AND VALVES

SUITABLE FOR:

Valves
Flanges
Couplings
Nuts and Bolts
Irregular Shaped Fittings





FEATURES:

- Complies with P1 Civil Engineering
 Specifications for the Water Industry
- Minimal surface preparation required
- Conforms, fills and protects awkward shapes and voids
- Non-drying and non-shrinking
- Quick and easy to apply
- Easy inspection after application
- Medium duty protection



Section of pipe and fitting with Denso Paste[™] and Denso[™] Profiling Mastic applied



INTRODUCTION

Leaks can happen for a variety of reasons. Broken pipes or couplings may result from mechanical damage or ground movement, but corrosion is one of the most common causes.

While new pipes are typically supplied with a factory-applied corrosion prevention coating, this coating can be damaged during handling, installation, backfilling, and other processes. Additionally, pipe couplings, which often rely on nuts and bolts for fastening, are highly susceptible to corrosion. As a result, despite the presence of basic factory coatings, additional field-applied corrosion prevention measures are necessary before the installation is buried.

To meet the need for extra corrosion prevention, the P1 Civil Engineering Specifications for the Water Industry, 8th Edition, was introduced, outlining the requirements for protecting ferrous pipes, joints, and fittings.

For many years, Winn & Coales (Denso) Ltd has been manufacturing and supplying corrosion prevention systems that comply with the P1 specification. When applied properly, our systems have proven to be highly effective in providing long-lasting corrosion protection.

The Denso P1 System comprises three parts:

- Denso Paste[™]
- Denso[™] Profiling Mastic or Densyl[™] Mastic
- Denso Tape[™] or Densyl[™] Tape

An optional addition of mechanical overwrap can be applied.



STEP 1. DENSO PASTE™

Denso Paste[™] is a soft paste containing moisture displacing and corrosion inhibiting compounds for application by stiff brush or gloved hand at normal ambient temperatures.

It does not dry, harden or crack, and is used for the preparation of metal surfaces prior to the application of Denso petrolatum tapes.

STEP 2. DENSO™ MASTIC

Used prior to the application of Denso Petrolatum Tapes, Denso Mastics are ideal for building up smooth contours on mechanical pipe joints, valves, bolted flanges, couplings and fittings. Denso Mastics remain permanently plastic whilst being impervious to moisture. They are highly resistant to mineral acids, alkalis, salts and mechanical stress over a wide range of temperatures.

Should it be necessary at any time to examine, modify or repair the items previously profiled, the mastics can be easily removed and re-used if required, provided the product has not been contaminated.

Denso™ Profiling Mastic

Petrolatum compound containing beads of cellular polymer and flow control additives. Contains no volatile organic solvents.

Denso Profiling Mastic HT[™] is intended for the same applications as Denso Profiling Mastic, but has a higher temperature limit and is suitable for use in tropical climates.

Densyl[™] Mastic

Petrolatum compound containing inert siliceous fillers and vegetable fibres. Contains no volatile organic solvents.

STEP 3. DENSO TAPE™

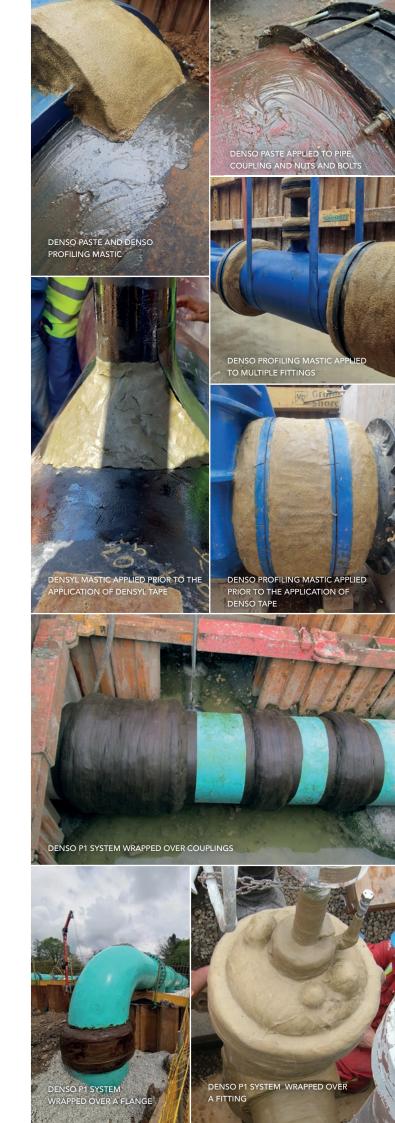
A range of petrolatum tapes (Denso Tapes) for corrosion prevention and overwrapping couplings, joints and fittings profiled with Denso mastic. The tapes offer a choice to suit a wide variety of environments and comply with the P1 Civil Engineering Specifications for the Water Industry.

Denso Tape[™]

For the protection of metal against corrosion above and below ground e.g. the wrapping of small and medium diameter pipes, joints, tie rods and post tension cables. The extreme conformability enables the tape to be easily applied to awkward profiles. Suitable for P1 specifications.

Densyl[™] Tape

Intended for the same applications as Denso Tape but offers a higher temperature limit and is suitable for use in tropical climates.





OUTERWRAPS

Where additional mechanical protection is required, Denso offer a PVC tape outerwrap for over-wrapping the Denso P1 System.

Denso™ PVC Self-Adhesive Tape

Denso PVC Self-Adhesive Tape is a PVC sheeting coated on one side with a rubber resin, pressure sensitive adhesive.

Product features:

- Self-adhesive
- Useful outerwrap for Denso products where physical contact is likely
- Protects against mechanical damage
- Available in black and yellow

APPLICATION METHOD OF DENSO P1 SYSTEM

Cleaning

Clean to remove all loose scale, rust, dirt etc.

Priming

Apply paste by brush or gloved hand.

Profiling

Apply mastic to create a smooth profile for wrapping.

Wrapping

Wrap with tape.













application video





PUB No. 705.07.2025



WINN & COALES (DENSO) LTD

TEL: +44 (0) 208 670 7511 EMAIL: mail@denso.net WEB: www.denso.net 33 - 35 Chapel Road London SE27 0TR UNITED KINGDOM

