



# DENSO™ PROTECTION OF PIPELINE FITTINGS AND VALVES

A HIGH PERFORMANCE RANGE OF DENSO MASTICS & TAPE WRAP SYSTEMS

## SUITABLE FOR:

- Valves
- Flanges
- Couplings
- Nuts and Bolts
- Irregular Shaped Fittings





## DENSO™ MASTICS & TAPE WRAP SYSTEMS FOR PIPELINE FITTINGS

A FULL RANGE OF SELF-SUPPORTING, NON-CRACKING COLD-APPLIED MASTICS AND TAPE WRAP SYSTEMS FOR MECHANICAL PIPE JOINTS, FLANGES AND VALVES.

### FEATURES:

- Minimal surface preparation required
- Conforms, fills and seals awkward shapes and voids
- Non-drying and non-shrinking
- Quick and easy to apply
- Easy inspection after application
- Resistant against aggressive backfill
- Choice of compatible tapes
- Complies with P1 and P2 Civil Engineering Specifications for the Water Industry



Section of pipe with Denso Profiling Mastic applied

## DENSO PIPELINE MASTICS

Used prior to the application of Denso Petrolatum Tapes or Denso Bitumen 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 sealed, 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

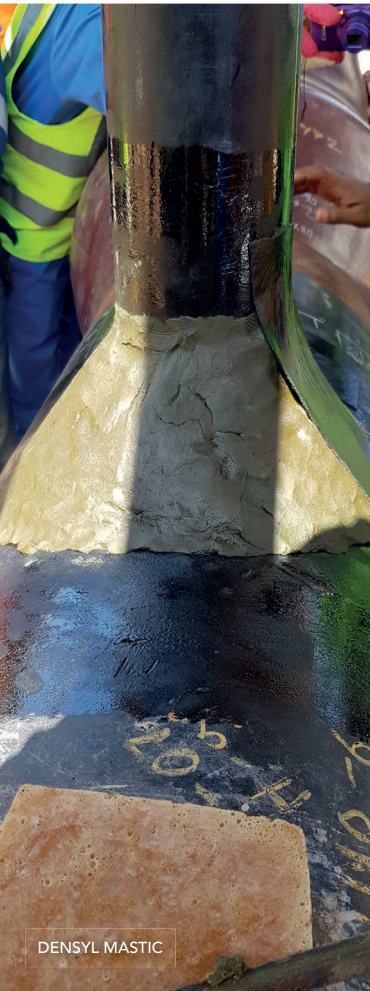
Petrolatum compound containing inert siliceous fillers and vegetable fibres. Contains no volatile organic solvents.

### Densyl™ Mastic Strips

Densyl Mastic Strips are preformed mastic with a triangular profile. They provide a quick and simple method of protection on tyton joints or where access may be difficult.

### Densyl™ Mastic Blanket

Preformed blankets of Densyl Mastic supported by a coated textile backing and protected by a removable plastic film interleaving. The Densyl Mastic Blanket has an



DENSO PROFILING MASTIC



DENSYL MASTIC BLANKETS

DENSYL MASTIC

overall thickness of 10mm. Densyl Mastic Blankets were developed for use on proprietary mechanical joints such as Viking Johnson Couplings - they provide a quick and easy method for this type of application.

## DENSO PIPELINE TAPES

A range of petrolatum tapes (Denso Tapes) and cold applied bitumen laminate tapes (Densoclad Tapes) for corrosion prevention and overwrapping couplings, joints and fittings profiled with Denso mastic. The tapes offer a choice of mechanical protection to suit a wide variety of environments and comply with the P1 and P2 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.

### Densoclad™ Tapes

For the protection of all sizes of buried or immersed pipes and fittings against corrosion. Suitable for machine or hand wrapping of welded joints, bends, bare pipe lengths and pipe fittings. Available in several grades, these tough tapes offer flexibility combined with mechanical strength. Suitable for P2 specifications.

Densoclad HT™ Tapes are intended for the same applications as Densoclad Tapes, but offer a higher temperature limit and are suitable for use in tropical climates.

## OUTERWRAPS

Where additional mechanical protection is required, Denso offer a PVC tape outerwrap for over-wrapping Denso Petrolatum Tape coatings that are applied to couplings, flanges and valves.

### 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



DENSO TAPE WRAPPED OVER A VJ COUPLING



DENSO TAPE WRAPPED OVER A FITTING



DENSOCCLAD TAPE WRAPPED OVER A FLANGE



DENSO TAPE WRAPPED OVER A VALVE



DENSO PVC SELF-ADHESIVE TAPE (BLACK)



DENSO PVC SELF-ADHESIVE TAPE (YELLOW)



DENSO PVC SELF-ADHESIVE TAPE BEING SPIRALLY WRAPPED AROUND A PIPELINE FITTING

# METHOD FOR PROTECTING PIPELINE FITTINGS AND VALVES

## 1. Cleaning

Clean the joint and the adjacent pipe thoroughly by removing all loose scale, rust, dirt etc. Ensure that the joint and adjacent pipe are as dry as possible.

## 2. Priming

Prime the cleaned area with appropriate primer for the over-wrapping tape (e.g. Denso Paste for Denso Tape or Denso Primer D for Densoclad Tapes).

## 3. Profiling

Apply mastic around and between all bolts and to fill all hollows and voids. Continue to apply mastic until the valve or fitting has a smooth profile suitable for wrapping.

## 4. Wrapping

Next, spirally wrap the tape with tension making sure a 55% overlap is achieved which ensures a double wrap at all areas. Be sure to start from the middle of the joint, complete a circumferential wrap and continue wrapping towards the pipe on one side and then repeat on the other side. Smooth out all air pockets and wrinkles. On each side of the joint or fitting the tape shall extend along 150mm of the barrel of the pipe.



## APPLYING THE DENSO P1 SYSTEM™



Clean joint thoroughly with wire brush



Apply Denso Paste to joint with brush - or gloved hand. Protective gloves must be worn



Denso Profiling Mastic is applied to the joint

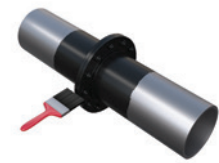


Denso Tape is applied to the joint, wrapped with a 55% overlap

## APPLYING THE DENSO P2 SYSTEM™



Clean joint thoroughly with wire brush



Apply Denso Primer D to joint with brush. Protective gloves must be worn



Denso Profiling Mastic is applied to the joint



Densoclad Tape is applied to the joint, wrapped with a 55% overlap



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