

Mounting Instruction

DENSOLEN Tape AS40 Protective coating against corrosion

1. Cleaning

and dust.



All contamination which might act as a release agent (e.g. grease, oil, varnishes, temporary protecting, paints, coupling agents) have to be completely removed prior to tape application. Use suitable solvent if

2. Drying



The areas to be coated (steel surface Humidity and ice have to be removed Cleaning of steel surface can be done Transitions to adjacent factory coating and adjacent factory coating) have to by drying with a torch flame. be clean, dry and free from grease

3. Surface Prep.



by wire brushing or abrasive blast

Any excisting scale has to be removed by abrasive blast cleaning.

4. Trans. to Factory Coating



should be bevelled by use of a round shaped rasp (recommende angle: approx 30°C).

Remove grinding dust.

5. Prep. of Factory Coating



Use suitable solvent if necessary.

se emery cloth.

Remove grinding dust.

6. Priming



Adjacent factory coating has to be Thoroughly stir DENSOLEN®-primer cleaned in a width of approx 150 mm. in original drum until any bottom settings are dissolved.

Cleaned factory coating has to be By using a brush or roller apply a thin circumferentially roughened with coar- even coat of primer to the cleaned and even coat of primer to the cleaned and dried surface. The factory coating has to be primed in a width of "tape width plus min. 50mm" on each side. After use immediately close and seal primer drum

7. Priming - Drying



Let the primer dry until it is tack free. The drying time depends on ambient temperature and (approx 10 - 30 min.).

The primed surface should be wrapped latest within 6 hours. Otherwise or in case of contamination (e.g. dust) the primer coat has to be renewed.

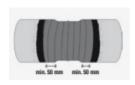
8. Wrapping



In case of hand wrapping (tape width max. 50 mm) start with one circumferential wrap before spirally wrapping the tape. (start of wrapping: min. 50 mm on factory coating

Spirally wrap tape (e.g. DENSOLEN® 3-ply tapes with grey side facing the pipe surface) under tension with min. 50% overlap around the pipe.

9. Wrapping 1st layer



is narrowed by approx 1% during application.

Remove interleaving.

Start of wrapping on factory coating: The tape wrapping should cover the min. 1,5 times of tape width. full circumference of the adjacent factory coating by a width of min. 50 mm.

10. DENSOMAT wrapping



Tape tension is sufficient, if tape width When using DENSOMAT® wrapping devices, wrapping can start in spiral motion instead of one circumferential wrap (inner- and outerwrap).

11. Outerwrap

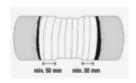


In case of hand wrapping (tape width Tape overlap: min. 50%. max. 50 mm) start with one circumferential wrap before spirally wrapping the tape.

The outerwrap should at least fully cover the innerwrap. It is recommended to start wrapping by covering the innerwrap by 1/2 of tape width.

Spirally wrap the outerwrap tape (e.g. DENSOLEN® 3-ply tapes with grey side facing the pipe surface) under tension with min. 50% overlap around the pipe

12. Outerwrap extra layer



Tape tension is sufficient, if tape width is narrowed by approx 1% during application.

Remove interleaving

The tape wrapping should cover the full circumference of the adjacent factory coating by a width of min.



Application:

Installation must be done according to local regulations and usual safety precautions. Follow safety instructions given on the DENSOLEN®-primer.

Application temperature:

Pipe surface: min. +3°C above dew point up to +85°C

Environment: -40°C up to +60°C

DENSOLEN®-HT Primer: -10°C up to +40°C

DENSOLEN® Tape: -10°C up to +50°C

Testing:

In order to avoid wrinkling due to thermal elongation of the PE carrier film, the temeperature difference between pipe surface (before and after tape application) and tape roll should be max. +30°C.

NO wrinkles are allowed in the finished wrapping on visual testing.

The wrapping has to be tested for freedom from pores with high voltage holiday detector.

Test voltage: 5 kV + 5 kV per. mm of coating thickness, max 25 kV.

Recommendations:

It is highly recommended to use DENSOMAT® wrapping device for application of tapes wider than or equal to 50 mm.

In order to ensure that tapes are applied with sufficient wrapping tension, the tape width should be limited to max. 150 mm.

The above application instruction can also be transferred to the wrapping of full pipe length or pipe bends.