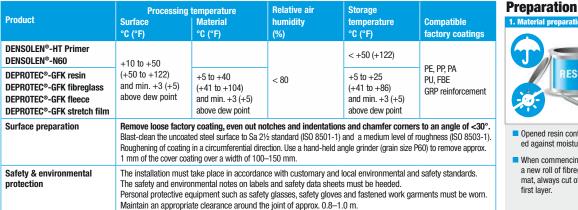
# **DEPROTEC®-GFK DEPROTEC®-GFK** System

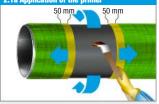


Protect the lamination area, and envoronment against UV radiation. Prevent resin from contaminating the ground.

2.3a Ai

### a) HDD process

(with corrosion protection tape) 2.1a Application of the prin



- Stir primer thoroughly before use (ensure that no residue is left at the bottom of the container).
- Apply a thin and even laver of the primer to the clean and dry pipe surface using a brush or roller
- Overlap the primer on the adjacent factory coating by approx. 50 mm.
- Leave to air-drv until the primer is tack free.



- Starting and finishing by wrapping DENSOLEN®-N60 in a straight circle and min.50mm covering the factory coating. Spirally wrap the tape around the pipe with 50% overlap. During application, apply the tape with a tension that causes approx. 1% tape to taper.
- Please note: DENSOLEN® tape and primer must be applied with the edges aligned.



n of the GRP

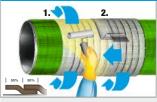
- Apply a thick layer of resin to the area to be coated (incl. 200 mm cover coating).
- Wrap fibreglass around the steel section with a 50% overlap until the factory coating laver thickness is achieved.
- After each round of wrapping, apply a generous layer of resin to the surface and allow to thoroughly penetrate the fibreglass.
- Until the thickness of the cover coating is achieved, continue to wrap the fibreglass with a 50% overlap so that the half bevel of the cover coating is included. After every two layers of fibreglass, resaturate with resin.
- Continue to 3.

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- Opened resin containers must be protected against moisture, rain and UV light.
- When commencing work and starting a new roll of fibreglass or polyester mat, always cut off and dispose of the first laver.

#### b) Ramming/driving process (without corrosion protection tape)

2.1b Application of the GRP coating



- Apply a thick layer of resin to the area to be coated (incl. 200 mm cover coating).
- Wrap the first two layers of fleece, with a small overlap, so that the half bevel of the factory coating is included.
- Wrap the following two layers of fleece with a 50% overlap (edges aligned) After each round of wrapping, apply a generous
- layer of resin to the surface and allow to thoroughly penetrate the fibreglass.
- Wrap fibreglass around the steel section with a 50% overlap until the coating layer thickness is achieved. Until the thickness of the cover coating is achieved.
- continue to wrap the fibreglass with a 50% overlap so that the half bevel of the cover coating is included. After every two layers of fibreglass, resaturate with resin Continue to 3.

#### Repairs



- Defects must be sanded out using equipment such as a hand-held angle grinder and a grinding disc with grain size P60. Sand the area of GRP coating around the defect, working within a radius of approx. 10 cm.
- Defects are filled using alternate layers of resin and fibreglass until the coating thickness is achieved.
- The two final layers and two layers of glass mat must protrude beyond the edges of the defect and overlap the intact GRP by at least 5 cm.
- The entire defect area is then cured and tested as previously described.

## Finishing





- Wrap the final layer of fibreglass around the cover coating with a 50% overlap of approx, 10-15 cm each time and saturate with resin.
- Wrap the fleece around the pipe with a 50% overlap (edges aligned with fibreglass) without applying additional resin. Spread/remove superfluous resin
- Wrap the stretch foil around the pipe to protect the coating.



- The resulting system can be cured using artificial radiation (e.g. UVA Spot from Dr. Honle) applied for at least 15 minutes in all directions.
- Distance of radiation source from pipe surface approx. 25-35 cm.
- Light warm-up time min. 5 minutes.
- Please note: After max, 10 wraps/20 lavers (50% overlap) of fibreglass (approx. 10 mm GRP), the applied GRP must be allowed to cure ("intermediate curing").
- A sufficiently cured GRP protective coating (see "Testing") can be subjected to stress after a minimum of 1 hour cooling time.



- Once fully cured, test the hardness using a Shore-D tester (Shore-D value > 70).
- Visual check for air pockets, contamination and "milky" appearance (moisture) etc.
- High voltage test at 25 kV.



Phone: +49 214 2602-0 | info@denso-group.com www.denso-group.com

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