



## TECHNICAL DATA

# RBX TAPE

## High Strength Pipe Repair System

RBX TAPE is an impregnated, water-cured fiberglass fabric for the reinforcement and repair of pipelines and connection elements.

RBX TAPE is specifically designed for use on fittings, bends and connectors.

RBX TAPE is used for the low-cost continuous repair of water and oil pipes.

### FEATURES:

- Is immediately ready for use without any measurement or mixing work.
- Is cost-effective and can be billed simply as a single unit.
- Adhere to all metals, porcelain, glass and most plastics.
- Eases repairs on corner joints, arches and other shaped fittings.
- Possesses excellent chemical resistance and is resistant to hydrocarbons.
- Provides excellent adhesion to steel, PVC, FRP, concrete, wood, glass and most metals and plastics.
- Can be activated with tap water and salt water.
- Allows for a quick recommissioning of the piping system.
- Increases the pressure resistance in the area of repair in some cases.
- Allows the restoration of severely damaged or rusted piping components, in conjunction with RPX Putty.

### APPLICATION EXAMPLES:

- Repair of cracks or holes in pipelines.
- Sealing leaks in steam pipes.
- Sealing and reinforcing of pipes and fittings.
- Protection against corrosion on press fittings.
- Repair of underwater cables.
- Corrosion protection on circumferential welds.

### TECHNICAL DATA:

Basis:	Hydrophile Polyurethane / Aramide Fibre
Size:	50m x 1,8m
Appearance:	White
Packaging:	air-tight foil bag
Pipe Diameter:	<50 mm (max)
Tensile Strength:	Fracture Toughness Test – 2051 N/mm <sup>2</sup>
Flexural Strength:	50 N/mm <sup>2</sup> after 15 min
Working Time:	approx. 2 min
Initial Cure:	7-10 min
Final Cure:	45-60 min



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### Operating Conditions:

Pressure Resistance:	30 bar (3MPa) (depending on size of pipe and leak)
Recommended Pressure:	Max. 15 bar
Pressure Test:	Test System, Hand Pressure Test Pump (FESA 2) 60 min. after bonding, water pressure up to 30 bar.
Max. Service Temperature:	150°C
Chemical Resistance:	Most dilute acids, brine, oils, toluene, white spirit, xylene, sodium hydroxide, saturated solution of soda, fuel oil, kerosene, ethyl, alcohol, diesel fuel, acetone, sodium hydroxide 50%.

**Instructions for use:** The surface must be clean, dry and free from oil, rust or grease • Clean and sand the area to be repaired, put on the protective gloves, dip the bandage for about 20 seconds in water, knead several times and immediately wrap around the repair site. Always use clean and cold or lukewarm water. (In warm or hot water processing time is reduced tremendously!). Depending on the temperature and humidity, the available installation time is around 2 minutes. At very high temperatures, high humidity or larger pipe diameters, do not dip the bandage in water, but spray the individual layers sprinkle with cold water during assembly. At very low temperatures, the temperature of the repair job must be warmed to at least 5 ° C • The bandage should be attached spirally to the pipe in one direction with an overlap of at least 50%. At the end of the repair area, continue winding the bandage in the opposite direction. (The winding direction should under no circumstances be changed within a location!) • Both ends of the repair bandage should flatten out towards the pipe. The repair should extend beyond the damaged area by 50% at each end according to ASME approval • After application, the repair bandage must be kneaded in the winding direction in order to ensure a correct distribution of the resin within the fibre. This process must be continued during the entire installation process until the curing process begins • A very fine smooth finish can be achieved by wrapping the repair area in 2 or 3 layers of plastic foil, flattening the surface and removing the foil. (Not recommended for warm components). A plastic sheet should always be used in underwater operations to prevent the resin from being washed out by water, movement or flow of leakage • To seal or for repairs in the event of loss of wall thickness of pipes, at least 10 layers are required in order to achieve maximum strength. If required, or for larger pipe diameters, multiple roles can be attached together while fresh. The pressure resistance increases continuously with the number of layers used • Heavily damaged (holes, cracks, leaky weld seams) or heavily rusted piping components must be filled with RPX Putty before the bandage is applied. The putty is suitable even for acute water leaks (up to 1 bar). Press the kneaded putty to on the surface, until an initial bond is achieved. (For easier mixing the Putty can be softened if warmed) • The recommissioning time in excess of 25°C is one hour. The full operating pressure should be slowly restored.

**Storage:** Keep unopened in original packaging in a cool and dry place. Recommended storage temperature 10 °C to 25 °C. Do not expose to temperatures below 5°C or above 40°C. The shelf life is at least 18-24 months (in compliance with the above-mentioned storage conditions).

**General information:** The information contained herein serves merely as an indication and is given to the best of knowledge. The users must test the suitability of the product for her/its/their respective application independently however. All products purchased from or supplied by Nohtec are subject to terms and conditions set out in the contract. Nohtec warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Nohtec is considered accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Nohtec makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will infringe any patent.