



REINFORCEKIT® 1D



COMPOSITE REPAIR FOR PIPE PROTECTION AND REINFORCEMENT

Water activated polyurethane prepreg system



All diameters



up to +68°C (for reinforcement)



Oil



Gas



Water



Onshore / Offshore



PIPE REPAIR AND REINFORCEMENT
According to ISO 24.817 & ASME PCC-2



PREPREG WRAPPING



INNOVATIVE REPAIR SOLUTIONS
FOR YOUR INSTALLATIONS



REINFORCEKit® 1D (R1D) is a water activated prepreg system, wrapped helicoidally around the pipe to restore its original integrity without shutdown.

This composite product made of fiber glass and polyurethane resin is a long-term solution designed to repair pipes suffering from corrosion defects and mechanical damages.

The repair design is provided by 3X software R.E.A in accordance with ISO 24.817 & ASME PCC-2 standards.

REINFORCEKit® 1D can also be used as protection for coatings. In this case, no calculations, no filler and primer are needed and the installation process is reduced.

REINFORCEKit® 1D RANGE AND COMPONENTS

<p>2 tape sizes</p>  <p>R1D-150 (150mm x 1.5m)</p> <p>R1D-285 (285mm x 1.5m)</p>	<p>Needed fillers for reinforcement application ONLY</p>  <p>Filler</p> <p>Primer</p>	<p>Needed accessories for application</p>  <p>Water spray</p> <p>Plastic wrap</p> <p>Spiked roller</p>
---	--	---

The roll of prepreg tape is sold without fillers and accessories for application

<p>USES</p> <ul style="list-style-type: none"> Reinforce pipe suffering from: <ul style="list-style-type: none"> - external and internal corrosion - mechanical damage Restore pipe original integrity Impact protection Coating protection 	<p>APPLICATIONS</p> <ul style="list-style-type: none"> Onshore and Offshore All pipe geometries including welds, elbows and tees All pipe sizes (no limitation) Pipe operating from -50°C to +68°C (for reinforcement application) and up to +88°C (for protection application) Pipe transporting most common fluid and gas 	<p>BENEFITS</p> <ul style="list-style-type: none"> Online repair (no shutdown required) Fast and easy implementation Long-term performance No heating or post-curing required
---	---	--

REINFORCEKit® 1D IMPLEMENTATION STEPS

<p>1</p>  <p>Designed as per ISO 24.817 & ASME PCC-2</p>	<p>2</p>  <p>Surface preparation Sa2½ / St3 and roughness Rz > 60 µm</p>	<p>3</p>  <p>Filler and primer applications</p>	<p>4</p>  <p>R1D wrapping (spray water continuously)</p>	<p>5</p>  <p>Identification plate positioning</p>	<p>6</p>  <p>Compression film application and perforation</p>
---	---	---	---	---	---

For reinforcement application, steps 1 to 6

For protection application, only steps 4-5-6

3X recommends to apply an anti-UV coating after R1D installation

3X ENGINEERING : 9, avenue Albert 2 - 98 000 MONACO
Phone : + 377 92 05 79 81 - Fax : + 377 92 05 72 71 - info@3xeng.com - www.3xeng.com

