



PIPE REPAIR — LEVEL 4 — CPR

Composite Pipe Reinforcement (CPR) Repair Kit

Wrap Steel Level 4 CPR is an advanced carbon fiber-reinforced composite repair system developed for the permanent rehabilitation of pipelines and piping systems subjected to various types of structural damage. Designed in accordance with ASME PCC-2, the system restores the original mechanical strength of the pipe, providing a reliable solution for both minor defects and more severe structural damage while ensuring compliance with the industry's leading codes, standards, and engineering requirements.



“

Wrap Steel level 4 CPR is designed to permanently restore the structural integrity and operational capability of pipelines affected by:

- External corrosion and pitting corrosion
- Dents, impact damage, and surface gouges
- Weld defects and manufacturing flaws
- Deformations and buckling
- Cracks (where permitted based on engineering assessment)

ADVANTAGE

- Provides permanent repairs while minimizing operational downtime during installation.
- Eliminates the need for welding or hot work, enhancing operational safety.
- Its flexibility allows for easy installation on pipes with complex geometries, deformations, and restricted-access areas.
- Significantly reduces repair time and the costs associated with field repairs.
- Fast and efficient to apply, requiring lower labor costs compared to traditional repair methods.
- Can be applied directly to metallic surfaces without causing additional damage, providing a lighter, more durable, and more cost-effective alternative to steel reinforcement systems.

PACKAGES

REORDER #	SIZE
CPR630	6" X 30'
CPR4150	4" X 150'

KIT

Rebuild Material: Dura-Coat High Temperature Structural Putty 2000

Base Resin: Dura-Coat Metal 400

Resin: Dura-Coat Reinforcement Resin 1150

Reinforcement Fabric: 3KBD Carbon Fiber

TECHNICAL DATA

PROPERTY	
Tensile Strength	572 ksi (3,94 GPa)
Tensile Modulus	34 Msi (234,4 Gpa)
Layer Thickness	0.02" (0,51mm)
Hardness	85
Maximum Recommended Application Temperature	150°C (302°F)
Shelf Life	36 months

CURED TIME

	16°C (60°F)	25°C (77°F)	32°C (90°F)
Tack Free	4 hours	2 hours	1 hour
Light Load	12 hours	6 hours	3 hours
Full Load	24 hours	12 hours	6 hours



PIPE
REPAIR

APPLICATION PROCEDURE

1 Rebuild

Rebuild areas with imperfections and wall loss using Dura-Coat High Temperature Structural Putty 2000



2 Corrosion Protection

Coat the entire repair area with Dura-Coat Metal 400



3 Impregnation

Apply Dura-Coat Pipe Reinforcement Resin 1150 to the carbon fiber tape to achieve complete impregnation



4 Reinforcement

Perform the structural reinforcement by wrapping the pre-impregnated carbon fiber tape around the pipe, overlapping each wrap by 50%



5 Final Finish

Wrap the entire repair area with the compression film, then roll over it using the spiked roller



Manufacturer, Dura-Coat Industrial Inc., makes no warranty either expressed or implied including warranties of merchantability or fitness for a particular purpose for this product. Under no circumstances will the manufacturer be liable for incidental, consequential, or other damages, breach of warranty, strict liability, or any other theory arising out of use of this product. The information and/or recommendations contained herein are based on standard Product and are proprietary and furnished solely for the use of our customers. This information is provided in good faith and believed to be true and accurate as of the date/version of this document. As the manufacturer has no control over the use conditions or application process of the parties using this product, the manufacturer cannot accept responsibility for loss, injury or other damages resulting from the use of the Product or this or any other information provided by the manufacturer. Therefore, no guarantees of any kind, expressed or implied, are made by the manufacturer, Dura-Coat Industrial Inc., regarding this, or any, product manufactured by them or any contracted or licensed manufacturer. DURA-COAT® epoxy products do not provide structural integrity or improvement. They are only used to provide protection from corrosion, wear, abrasion and chemical attack on a given substrate and only to the extent provided for in the Data Sheets, Technical Data Sheets, Safety Data Sheets, and any other information as supplied in writing directly from manufacturers technical support.

