RR&C ELR

SELECTION & SPECIFICATION DATA

Type

Composite Pipe Repair System

Description

RR&CELR is a fast-curing emergency pipe repair system that stops leaks on metal pipe within minutes and requires no special tools to install. The pipe can range from 1/2 to 5 inch (2 to 12.7 cm) in outside diameter at pressures rated up to 400 psi (2.76 MPa). Each kit contains a roll of water-activated, resin-impregnated fabric wrap and a two-part epoxy putty plug.

Features

- Stops active and inactive leaks in minutes
- No special tools required
- No hot work permit needed
- For pipe rated up to 400 psi (2.76 MPa)
- Temperature resistant up to 250°F (121°C)

Uses

- Emergency pipe leak repair
- Pipe joint sealant
- Pipe wrap
- Pipe wall restoration
- Structural reinforcement

Color

Off-white

Solids Content

100% solids, no VOC's

Limitations

- For 0.5" to 5" OD metal pipe.
- For pipe rated up to 400 psi (2.76 MPa).
- Pressure resistance varies with hole size, type of pipe, pipe diameter, contents of pipe, and method of application.
- For best results, use on depressurized, ambient-temperature pipe

APPLICATION GUIDELINES

Conditions

RR&C ELR is designed for ideal handling at 50°F (10°C) to 80°F (27°C) ambient temperatures. Depressurize pipe before repairing when possible.

Surface Preparation

Remove any loose scale, dirt, and particulate to produce a bright metal finish. Clean/degrease pipe surface with a suitable solvent. Ensure that the entire surface around the pipe circumference over which the wrap will be applied is thoroughly clean. Refer to RR&CELR Application Guide for complete details.

Installation Instructions

Carefully read the RR&C ELR Application Guide before starting. Put on gloves. Remove putty plug from wrapper and thoroughly combine parts. Remove wrap from pouch, immerse in jar of water, and squeeze and release roll underwater a few times. Cover hole with putty and wrap pipe in accordance with RR&CELR Application Guide, squeezing resin down into wrap while quickly stroking the surface in the direction the wrap was wound around the pipe.

Work Life

Repair must be applied quickly and immediately after combining putty parts and activating resin-impregnated wrap with water.

Cure Time

Tack-free 3-5 minutes after resin is activated with water at 50°F (10°C) to 80°F (27°C) ambient temperatures.

Full cure 30 minutes after resin is activated with water at 50°F (10°C) to 80°F (27°C) ambient temperatures.

Cure time is longer at cooler temperatures and shorter at hotter temperatures. A repair with more layers will set faster than one with fewer layers.

PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
ELRS-8QTCS-SW	RR&C ELR Small Kit	Case of 8 kits Each kit contains: • 2″ x 4′ tape • 1″ epoxy putty plug • Pair of gloves
ELRM-8QTCS-SW	RR&C ELR Medium Kit	Case of 8 kits Each kit contains: • 2″ x 12′ tape • 1″ epoxy putty plug • Pair of gloves
ELRL-8QTCS-SW	RR&C ELR Large Kit	Case of 8 kits Each kit contains: • 4″ x 12′ tape • 1″ epoxy putty plug • Pair of gloves

Theoretical Coverage

Reference the diameter and pressure of the leaking pipe to determine the number and size of kits to apply. For pipe diameters over 5 inches contact Sherwin-Williams for guidance.

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Shelf life is 2 years when stored at 40°F to 83°F (5°C to 28°C).

NOMINAL PIPE O.D.	50 PSI (10 PLIES)	150 PSI (15 PLIES)	400 PSI (20+ PLIES)
1/2″	1 small kit	1 small kit	1 small kit
3/4″	1 small kit	1 small kit	1 small kit
1″	1 small kit	1 small kit	1 medium kit
1-1/4″	1 small kit	2 small kits	1 medium kit
1-1/2″	1 small kit	2 small kits	1 medium kit
2″	2 small kits	1 medium kit	1 medium kit
2-1/2″	1 medium kit	1 large kit	2 large kits
3″	1 medium kit	1 large kit	2 large kits
3-1/2″	2 medium kits	2 large kits	2 large kits
4″	2 medium kits	2 large kits	2 large kits
5″	2 large kits	2 large kits	3 large kits

SAFETY

Safety

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	VALUE
Tensile Strength, ASTM D3039	24,950 psi (172 MPa)
Modulus, ASTM D 3039	62,500 psi (431 MPa)
Flexural Strength at Yield, ASTM D790	12,000 psi (82.7 MPa)
Durometer Hardness, ASTM D2240	63 Shore D
Service Temperature	-20°F (-29°C) to 250°F (121°C) continuous, up to 500°F (260°C) intermittent

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