RAP FIX

RAPID REPAR STRIP FOR PIPES

7 good reasons for using **RAP FIX**

1. RAP FIX is a fibreglass **polyurethane repair** strip designed for the rapid repair of cracks and leaks in most types of pipework used in the engineering, chemistry, naval and other manufacturing industries.
2. No mixing required. **Easy** to use and repaired items can be back in operation in less than thirty minutes. No need for tools.
3. RAP FIX is a roll of fibreglass tape which, as it is flexible, is easy to apply on bends and connections.
4. RAP FIX is **50 mm** wide and can therefore be used for repairs on pipes with an exterior diameter of up to 50 mm.
5. RAP FIX **resists** shocks and vibrations and pressure up to approximately 30 bars.
6. Can be **drilled** and **sanded** after polymerisation.
7. Can be **painted**.

Particularly suitable for use in

Construction Institutions Service and maintenance

The tape is pre-saturated with a high-performance polyurethane resin which adheres on PVC, GRP (Glass Reinforced Plastic), concrete, glass and all types of metal pipes. When activated by water, it hardens to produce a solid chemical-resistant shell around the item being repair.

REPAIRS OF HOLES OR CRACKS IN ALL TYPES OF PIPES (Steel, alu, PVC, zinc, copper, galvanised iron, cast iron, stoneware,...)
INDUSTRY: anti-corrosion treatment of pipes in the petrochemical sector, repairs of pipe pumps, repairs of pipes for petrol, oil and chemical products, and repairs of water and steam circuits.
AGRICULTURE: repairs of leaks in irrigation pipeworks (resists « water hammering »), and irrigation booms.
MARINE: repairs of leaks in water circuits: indispensable for repairs at sea. Repairs of holes in boat hulls.
PLUMBING : PVC and copper pipes.
WATER TREATMENT PLANTS: all repairs of mains, and all types of pipes.

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KLIMKOS : Alkaline drain clearer

This datasheet supersedes previous documents. The information contained in these data sheets is based on our present knowledge and experience and is given as indication only. Under no circumstances does it engage our responsibility in the event of misuse of our products. Non-contractual photos and images.

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7 d'Armor® takes the utmost care in preparin the order and the product quality. In case of defect accepted by the company, its obligation will be limited exclusively to product replacement or refund of defected quantities without other compensation. Defects and damage resulting from storage, handling, transport or use are excluded from the warranty in irregular conditions not conformed with the nature, prescriptions as well as the product use not respected the instructions of the technical data sheet.

Characteristics	Instructions for use
Setting time: 1-2 mins depending on temperature. Initial hardening time: 7-10 mn Fully cured: 30-45 mn Traction resistance: 30 MPa Elastic modulus: 7.5 GPa Coefficient of thermal expansion: approx. 1.9 x10-3 per °C Max operating temperature: 150 °C Pressure resistance: 5 - 30 bar (1.5 - 3 MPa) depending on pipe and leak dimensions. Chemical resistance: Resistant to most water-based solutions, to diluted acids and bases, to petrol, to diesel and fuel oils, to mineral oils, ketones and alcohols. Dimension: 50x1800mm For more information, see MSDS.	**1**. Close the pipe, clean and lightly sand the area to receive the tape, extending at least the width of the tape on either side of the break/leak. **2**. Open the package and immerse the roll in water. **3**. Wrap the tape tightly around the pipe, starting at one end of the break and continuing in a spiral over it. Ensure that each layer is firmly pressed and moulded against the previous one and overlap them so that approximately 6 mm of the previous layer remains exposed. **4**. Do not touch the repair until the film has hardened. **Repairing connections** **1**. Close the adjacent pipe, clean and lightly sand the area to be covered in tape, extending at least the width of the tape on either side of the break/leak. **2**. Open the package and immerse the roll in water. **3**. Wrap the tape firmly around an undamaged area of the pipe, then wrap it on, around and above the damaged/leaking area. As far as possible, ensure that 10 layers of tape cover the area to be repaired. **4**. As and when the tape is applied, press and mould each layer firmly against the previous one, carefully ensuringfull contact on the inetior of the bends, on joints and on T-shaped parts. **5**. Do not touch the repair until the film has hardened.

ADVICE:

As RAP FIX is activated by moisture, the pack must not be opened until all preparations have been completed. Once opened, the tape must be immersed in warm water (20-35°C) for 10 seconds. Hold underwater applying light pressure with your hand, and apply immediately on the area to be repaired. Do not try to use only one piece of the tape.

Repairs must be carried out by wrapping the tape tightly around the pipe or the connection, starting on an undamaged part near the area to be repaired and continuing pass the repair zone to the other side. This means that you should first wrap the tape completely around the pipe before wrapping in a spiral over and beyond the damaged area, ending with a repair area that is at least the width of the tape larger than the damaged area pn each side. We recommend that you apply eight to ten layers of tape on the damage area (ensunring that each layer overlaps so that only 10% of the previous one remains exposed). Each layer of tape must be pressed and moulded against the previous one as it is being unrolled.

Depending on the type of repair and the shape involved, it may be necessary to use more than one tape. If this is the case, the second tape (and any subsequent tapes) must be applied immediately on the previous one.
In some situations, it may be beneficial to apply an initial seal by filling a hole with copper epoxy putty and allowing it to take firm hold before applying the tape.
In some low pressure applications, the tape may be used without closing the pipe, but particular care must be taken regarding safety precautions before commencing repairs. In this case, the tape may be applied tightly around the leaking pipe and held in place until it hardens, as a way to temporarily plug the leak. Once the tape is fixed, the pipe may be cleaned and the repair carried out as normal.

NOTES : Even though the hardened product is chemically inert and non-toxic, it has not been submitted for approval for use with drinking water.