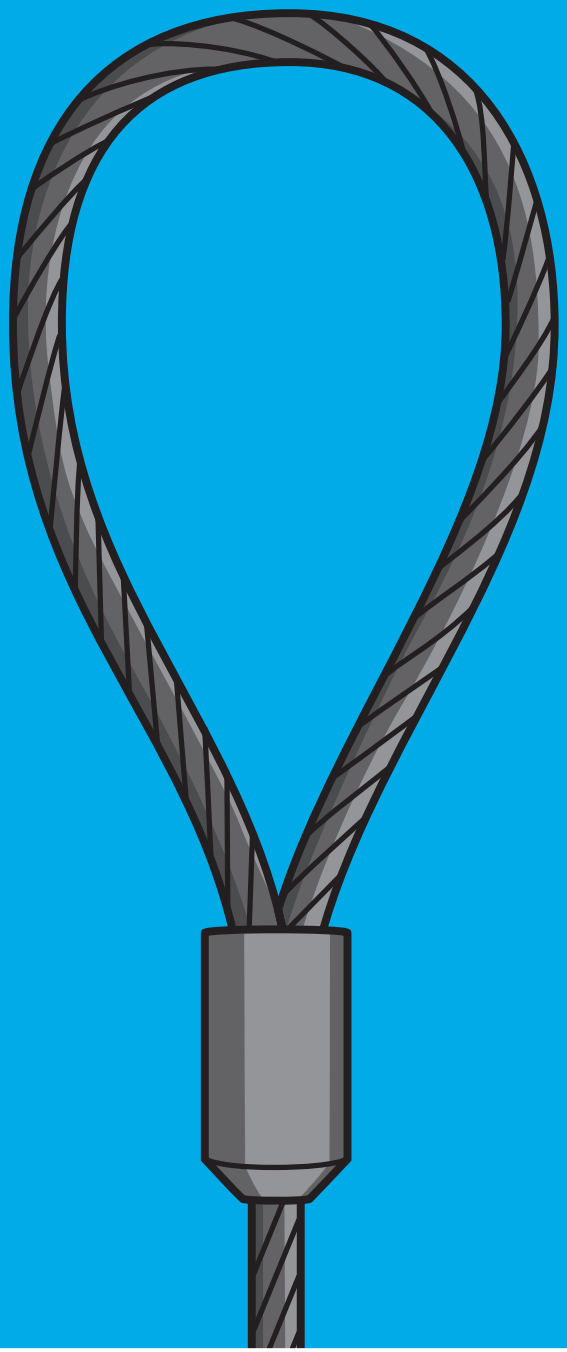
WIRELOCK® SLING

the cable laid sling capping kit



Procedure leaflet

Millfield

Developed & manufactured in the UK by
Millfield Enterprises (Manufacturing) Limited

WIRELOCK® SLING has been developed to meet the needs of end users securing sleeves that are being applied over the tails of a Flemish Eye termination. **WIRELOCK® SLING** by itself, is not a termination, it is only the resin fill element of end terminations that our customers design, test and deliver themselves.

The product must not be used for socketing. **WIRELOCK® SLING** is a variant of **WIRELOCK®** but **WIRELOCK®** must not be used as a substitute for **WIRELOCK® SLING**.

Follow these printed procedures carefully and pay close attention throughout to warning and safety information presented. For maximum safety and efficiency, use **WIRELOCK® SLING** only as instructed.

CAUTION

- Chemicals used in this product can give off toxic fumes and can burn eyes and skin.
- Always check the expiry date on the cans. Never use out of date material.
- Use only in well ventilated work areas
- Always wear safety glasses to protect eyes.
- Always wear safety gloves to protect hands.
- Avoid direct contact with skin anywhere.
- Always wear a dust mask/ fume filter.

Section 1: Sealing

1.1 The bottom of the sleeve should be sealed using **WIRELOCK®** putty/ clay or a similar material to prevent leakage.

In larger pours, a quantity of **WIRELOCK® SLING** – between 5% and 10% of the total pour volume could be mixed and poured into the sleeve and allowed to harden. This ensures a secure seal for the main pour. We provide smaller kits of **WIRELOCK® SLING** for this purpose.
NB Do not split a big kit to try and do this.

Section 2: Material

2.1 Always check the expiry date on the cans. Never use out of date material. **WIRELOCK® SLING** should be stored in a cool dry place (10°C to 24°C / 50°F to 75°F).

Section 3: Mixing WIRELOCK® SLING

3.1 **WIRELOCK® SLING** is formulated for mixing and pouring in the ambient temperature range; from -3°C to 43°C (27°F to 110°F). At lower temperatures the gel time will increase with decreasing temperature. Below 9°C (48°F) the gel time of approximately 20 minutes can be maintained by the use of **WIRELOCK® Booster** kits.

At ambient temperatures below 9°C (48°F) and above 2°C (35°F), one (1) **WIRELOCK® Booster** kit should be used. Below 2°C (35°F) and above -3°C (27°F), two (2) **WIRELOCK® Booster** kits should be used. The **WIRELOCK® Booster** kit compensates chemically for the slower gel time experienced at lower temperatures. In order to comply all the approvals granted, **WIRELOCK® SLING** should not be mixed and poured at temperatures below -3°C (27°F).

Knowing the ambient temperature is useful, however, it should be remembered that **WIRELOCK® SLING** will for some time afterwards tend to cure according to the temperature at which it, the sleeve and the wire rope were stored. The temperature of the sleeve and the rope should conform to the temperature at which the **WIRELOCK® SLING** has been stored for the last 24 hours. When the sleeves rope and **WIRELOCK® SLING** are stored at normal room temperature 18°C to 21°C (65°F to 70°F), **WIRELOCK® Booster** kits must not be used even if the ambient temperature is below 9°C (48°F).

3.2 Always mix all of the resin with all of the granular compound. Never mix less than the total contents of all cans. Mixing vessels must be clean. They can be of metal, polyethylene or polypropylene. Polymerization products of styrene, i.e., Styrofoam cups and similar products should not be used.

3.3 Immediately upon pouring the resin into the granular compound, mix vigorously for two (2) minutes or until a homogenous mixture has been obtained. Make sure that no unmixed granular compound remains on the bottom of the mixing container. For these larger sizes, a mechanical mixer must be used. Upon mixing, the **WIRELOCK® SLING** will turn to a green/ blue colour. If the mix remains a pale straw yellow colour, do not use the kit.

Section 4: Pouring

4.1 Once the **WIRELOCK® SLING** is mixed, it should be poured immediately into the sleeve to ensure good penetration, preferably down the side of the sleeve to allow air to escape. Immediate pouring will ensure that the gelling stage occurs in the sleeve and not in the mixing container. Gelling is the transition point from liquid to solid.

4.2 To provide an adequate safety margin, no load should be applied to the sling assembly until a maximum of one (1) day has elapsed from the time the **WIRELOCK® SLING** gels in the sleeve. As the **WIRELOCK® SLING** cures, a chemical (exothermic) reaction occurs, causing a considerable rise in temperature. Temperatures in excess of 100°C (212°F) may be reached in large volume kits in the mixing container. In the sleeve where the wires of the rope and the sleeve itself act as a heat sink, the maximum temperatures likely to be achieved will be in the order of 70°C to 80°C (160°F to 175°F).

Section 5: Movement

5.1 Movement of the resin poured sleeves may damage the soft resin and reduce the efficiency of the termination. **WIRELOCK® SLING** poured sleeves should not be moved for a minimum of sixty (60) minutes after the material in the sleeve has gelled. Gelling is the transition point from liquid to solid.

Section 6: Check on penetration

6.1 A visual check for penetration of the resin into the sleeve bottom can be made by removing the **WIRELOCK®** putty/ clay.

Section 7: Re-lubrication

7.1 After removing the rope from the holding device, any degreased area of the rope below the sleeve should be re-lubricated.

Section 8: Loading

8.1 The rope can be put into service 24 hours, 1 day, after the material in the sleeve has gelled. Whenever possible, the assembly should be proof loaded.

For more information about **WIRELOCK® SLING** please contact us:

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