

# OKO



## MILITARY DATA SHEET

### 1. How OKO Best Operates

OKO Tyre Sealant is best used in pre-emptive mode.

Pre-treated tyres on British Army Land Rovers (tested at Aldershot barracks) sustained up to 30 punctures in each tyre. Negligible air loss was experienced and the vehicles were operational some weeks later.

OKO Off Road is packaged in 1000 litre IBCs, 25 litre drums and 1.25 litre bottles.

These alternatives allow personnel to fit large vehicles and vehicle fleets BEFORE a puncture. Personnel can also carry the bottles as a "first aid repair kit".

### 2. Training

Little training is required in the application and use of OKO. Full instructions and dosage requirements are shown on each drum and bottle. In addition, complete online charts are available at oko.com. Application pump maintenance instructions are supplied with each pump.

### 3. Military Applications

OKO has been tested by a number of defence ministries. The applications for the Military are similar to commercial, industrial and consumer markets. There are additional benefits in use, however, both in contact with the enemy and in benefits to the logistic systems. Specifically, the main groups of vehicles have been identified as follows:

- Wheeled engineer plant;
- Large & medium logistic vehicles;
- Jeeps / Land Rovers & small logistic vehicles;
- Covert cars and vans;
- Mechanical handling equipment;
- High & medium mobility Drops vehicles that cannot carry a spare tyre on the cab or chassis.



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### 4. 'Fail Soft' lets Drivers React

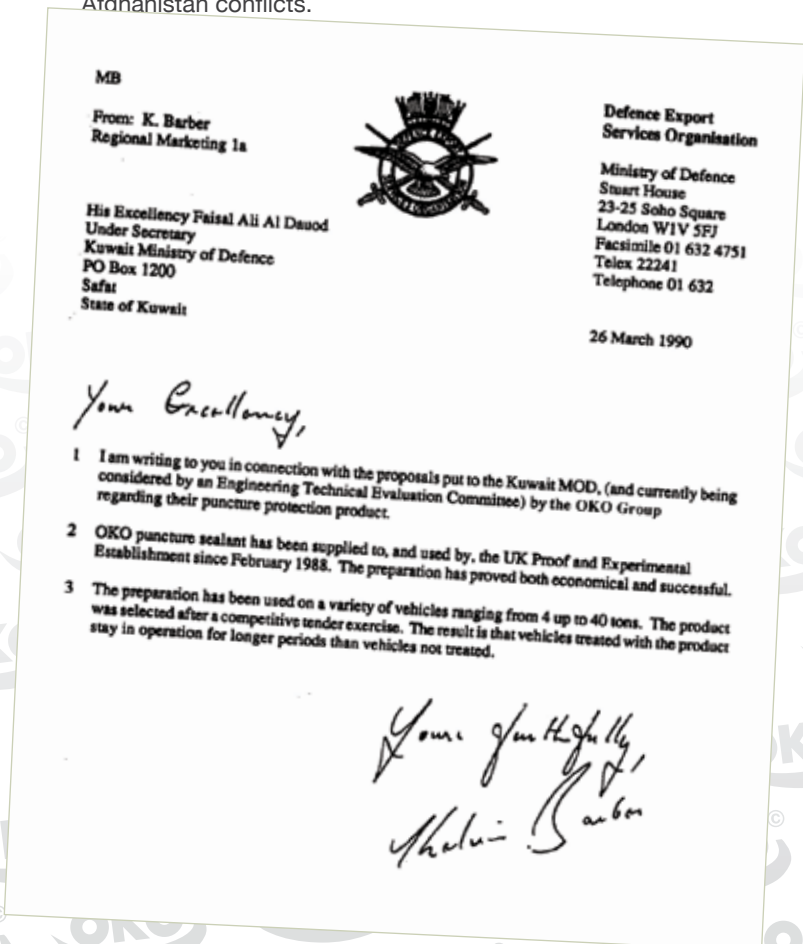
Where puncture damage is severe and the hole size is beyond the claimed capability of OKO performance, it is likely that the deflation of the tyre will be delayed significantly. In a slow moving vehicle, this will allow a tyre to run flat slowly because OKO will attempt to seal the large hole as the vehicle is moving. The vehicle should come to a rest without inflicting too much damage on the tyre.

In an ON Road situation, OKO can be a significant safety aid. Even if the hole is too large, OKO will attempt to plug it, thus giving time for the driver to react. In tests with Motorcycles, even though a front wheel puncture was larger than 9mm, OKO still tried to plug the hole. This gave the rider vital time to slow down and control the machine.

### 5. Trials

In the UK, OKO went into military service way back in 1988, following successful trials held at the Transport and Logistic Development unit at Aldershot, and also with: TLDT; 63 Airborne sqn RCT; 2 Para (on exercise in Kenya); AMF (L) exercises in Norway; Mechanical handling at RAF Lyneham.

Internationally OKO has been trialled and used by (among others) forces of Algeria, Australia, Morocco, Denmark, Finland, Israel, Jordan, Nigeria, Lithuania and UN peacekeeping forces: and has seen service in the Iraq and Afghanistan conflicts.





## 6. Advantages & Limitations

### Limitations

It is important that the advantages and limitations of Preventative Tyre Sealants are appreciated. A number of competitive products claim numerous advantages that are ridiculous. For example, some irresponsible suppliers have claimed that their tyre sealant balances the tyres; or, that it will survive large bullets.

These claims cannot be substantiated by such suppliers.

The OKO Group is the only tyre sealant manufacturer to allow independent research institutions worldwide to test the tyre sealant product with rigorous protocols.

### Advantages

The advantages of military use of OKO Tyre Sealants are:-

- a. Reduction in downtime for logistic vehicles;
- b. Limited protection from small arms fire and shrapnel;
- c. Reduced punctures in bush or desert conditions thus decreasing the threat of immobility;
- d. Improved availability in FIBUA;
- e. Improved reliability of supplies to first line combat forces;
- f. Greater efficiency for wheeled ambulances;
- g. Extension to tyre life since damage incurred by running on a flat tyre can be avoided;
- h. OKO qualifies as non-dangerous air cargo;
- i. Flexible use in a wide span of ambient temperature conditions;
- j. In extreme circumstances, or ambush scenarios, vehicles' chances of driving out of a situation will be improved dramatically;
- k. OKO Off Road Tyre Sealant will block holes caused by objects with a diameter up to 12mm in a wide range of vehicles. Mining X-Tra Heavy Duty is for larger tyres and can seal up to 20mm.



## 7. Summary

- a. OKO is an important aid to military operations, particularly for use in theatre and other harsh conditions.
- b. Fitting OKO is a 'spend to save' measure even in peacetime conditions or in areas where terrorists operate.
- c. The cost of equipping a vehicle with OKO Sealant is a small percentage of the total cost of the tyres. The cost of equipping all tyres with OKO is recouped normally when ONE hole has been sealed.