

SOCOPAC 50 S

LONG TERM, TEMPORARY, PENETRATING,
HYDROPHOBIC, CORROSION INHIBITING COMPOUND

Approvals: French Air Force (STPA), AIRBUS CML 15-007, SAFRAN Group (SNECMA DMR 75610, TURBOMECA CCT 00706), FORD, DASSAULT AVIATION.

**Conforms to specifications AIR 8062 Type I-II, AIRBUS Type II,
DASSAULT DGQT 1.7.0103 Type III.**

SOCOPAC 50 S provides a complete protection of materials, spare parts and assemblies in the most unfavourable climatic conditions. The film obtained forms a very efficient barrier against all the agents responsible for corrosion (water, oxygen, acids, bases and salts from industrial emissions, tropical atmospheres, etc...).

Its long-lasting corrosion preventive power allows a complete conservation guarantee after application on various materials such as aluminium and alloys, steels, light metals (titanium, magnesium), zinc and galvanized steel, copper and its alloys, cadmium. It can be applied without any risk of attack on painted surfaces, composite materials, plastics, rubbers, Plexiglas and polycarbonates (non crazing).

SOCOPAC 50 S has been formulated to offer the highest safety to the users as well as to the pieces to be protected; it is absolutely free of harmful solvents, toluene, xylene or chlorinated compounds.

- After drying SOCOPAC 50 S leaves an impervious durable protective film, resistant to temperature differentials, heavy rain, sea air, tropical atmospheres or corrosive industrial atmospheres.
- This film is medium hard, but wax-like and dry to the touch. Thanks to its flexibility, it can absorb slight impacts without damage or crazing. If the scratch is deeper, the capillary activity and polarity properties of the film towards the treated surface prevent the scratch from spreading. This facility of the protection called «self-healing» allows handling of the pieces even after a prolonged storage time, without loss of the protective value of the SOCOPAC 50 S film.

- The dry film is intended to resist several years outside and above all to remain stable during this period. It does not suffer air-damage, by exposure to sun or to heat; it is not subjected to any cross linking or polymerisation and can be therefore removed several years after application as easily as the first day.
- Though it has a particularly pronounced hydrophobic quality, SOCOPAC 50 S was not designed for the role of a specifically hydrophobic compound. However its capillary properties allow it to protect and repel water in an efficient way any material normally exposed to open air. In cases of humid, enclosed conditions, materials and parts exposed to wide differences in temperature, before protection it is necessary to apply a water-repellent compound such as WADIS 24, or SOCOPAC 25 H where a total thickness greater than 50 microns is required, before the SOCOPAC 50 S coating.

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USES

On account of its formulation in accordance with the aerospace standards, the favourite application field of SOCOPAC 50 S is **commercial or military** aerospace. It can be applied everywhere corrosion risks, caused by condensation or exposure to salt or corrosive air, require an efficient and controllable temporary protection : landing gear, closed compartments, cabin and toilet floors, load bay interiors, pipe-work, cables, guide rails of containers, etc...

DIRECTIONS FOR USE

- SOCOPAC 50 S can be applied by spraying (classic or airless spray gun), by dipping or by brushing (the operator must check that the deposited film is homogeneous and of the correct thickness). For a second layer, allow 2 hours before applying a new coat.
- For dipping, it is recommended to dilute SOCOPAC 50 S with **HYSO 96/1** at a concentration of about 30 %.
- SOCOPAC 50 S must be applied on clean and dry surfaces. When there is any doubt about the substrate humidity, it is better to apply **WADIS** or **SOCOPAC 25 H**. After application of one of these water displacing compounds, leave to dry for 1 to 2 hours before applying the SOCOPAC 50 S protection.

REMOVAL

SOCOPAC 50 S can be removed in different ways depending on the equipment available and local conditions.

- 1) With cleaning solvents without water rinsing, use **HYSO 96/1**, or **DIESTONE DLS** or **D**, or **SOCOSOLV 95/1**, or better for accelerated drying: **SOCOSOLV 99/1**.
- 2) With cleaning compounds followed by water rinsing: use HYSOMUL MC. After 10 minutes contact, rinse with water (hot water is preferably).
- 3) With a steam cleaning machine, set the temperature to over 80° C (176° F); some HYSOMUL MC (10 to 20 %) can be added.

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TECHNICAL CHARACTERISTICS

. Appearance	thixotropic liquid
. Density at 20°C (68°F).....	0.88
. Flash point (ISO 2592)	43°C (109.40°F)
. Viscosity (ISO 2431 n° 4)	70 seconds
. Colour	brown - red
. Covering power	25 µ = 17 m ² /l 50 µ = 8.5 m ² /l
. Recommended thickness of the dry film	25 to 100 microns
. Drying time (dry film of 25 µ at 20°C / 68°F)	
- fast to handling.....	about 4 hours
- total drying time.....	about 12 hours

PERFORMANCES OF THE PROTECTIVE FILM

. Film appearance	medium hard, dry, wax-like
. Thickness with spraying method	25 to 200 microns
. Thickness with immersion (dilution at 30 %)	50 to 80 microns
. Resistance to temperature	-55 to 150°C (- 67°F to + 302°F)
. Resistance to tropical humid air on steel (enclosed space at 95°F and 100 % humidity).....	> 6 months
. Resistance to alternate immersion in sea water ... on steel (AIR 0761/NFA 91411)	> 1000 hours (50 µ)
. Resistance to salt spray fog NFX 41002	25 µ = > 500 hours 50 µ = > 1000 hours
. Resistance to salt spray fog NFX 41002.....	> 1000 hours (50 µ)
on alloyed aluminium (2024)	

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PRECAUTIONS FOR USE AND STORAGE

SOCOPAC 50 S is free from harmful, chlorinated or aromatic hydrocarbons, and is not flammable in normal conditions of use.

However, as for all hydrocarbon-based products, it is important to take the normal precautions for use and store away from flames and heat sources. Wear gloves during application and eye protection.

Store in the original closed containers, away from heat sources and flames. Always shake well before use.

Please consult the safety data sheet for further information.

This technical data sheet replaces and cancels the previous one.

The above details have been compiled to the best of our knowledge, they have, however, an indicative value only, and we therefore make no warranties and assume no liability in connection with any use of this information, particularly if a third party's rights are affected by the use of our products. The above information has been compiled based upon tests carried out by SOCOMOR ; all data is subject to change as Socomor deems appropriate. The data given is not intended to substitute for any testing you must conduct in order to determine the suitability of the product for your particular purposes. Please check your local legislation applicable to the use of this product. Should you need any further information please contact our services.

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