



## Technical Data Sheet

### UK PLANET SILICONE SN-500

UK PLANET silicone SN-500 is a one-part, fast curing sealant, which in contact with atmospheric moisture forms a durable, flexible joint. It is unaffected by temperature extremes, UV - radiation, and maintains this resistance over many years. The UK PLANET silicone SN-500 contains agents against mould and fungus formation. It's an excellent sealing and bonding caulk with very good adhesion to most surfaces, e.g. to glass, glazing tiles, ceramic, coated surfaces, wood and most plastics.

#### TYPICAL TECHNICAL DATA

Recommended application temperature .....	+5 ÷ +40°C ( curing rate makes much slower at minus temperature )
Curing rate .....	2 mm/ 24 h, depending on the joint thickness, temperature of the surroundings and humidity of the air
Skin formation .....	15 ÷ 25 min.

\* Other colours available on request.

#### APPLICATION

- Elastic caulking in glazing of window frames;
- Sealing of non-expansion joints and gaps;
- Sealing of shop windows, signs and cable ducts;
- Protection of polyurethane foams against UV – radiation;
- Sealing of bathtubs, wash-bowls, showers, drainboard sinks and other sanitary and water supply systems;
- Caulking and joining of ceramic tiles
- Do-it-yourself applications;

#### INSTRUCTION FOR USE

##### Surface preparation

Contact area must be clean and dry, free of dust, rust, loose parts of an old sealant or paint, grease and oil. Degrease surface with acetone or ethanol (glass, glaze, metals) or detergent (plastics). Dry the surface precisely.

##### Priming

UK PLANET silicone SN-500 does not demand use of primer on most of substrates but for specific surfaces it may be needed to use the primer to improve adhesion. Please contact our Technical Service department for advice in case of any doubts.

##### Joint design

The sealant joint width should be designed to accommodate the movement capability of the sealant. Generally minimum width of the construction joint should be equal to 6 mm. For joints between 6 ÷ 12 mm wide the recommended depth of the fissure is equal to 6 mm. For joints above 12 mm wide, a width to depth ratio of 2:1 should be used, to the maximum depth of 12 mm. In case of deeper fissures and in situation where it is necessary, elastic fillet joints (for example a polyethylene filling bar) should be applied. In addition to it, the minimum thickness of a sealant joint's layer above a fillet joint should be equal to 6 mm. Elastic fillet joint should be applied where backpressures are possible or so as to avoid three-sided adhesion that limits sealant movement capability.

##### Silicone Application

Cut the cartridge outlet over the screw-thread. Then cut slanting the tip of applicator nozzle for gap width and screw onto the cartridge outlet. Use a gun for cartridges to apply the silicone. Protect the surface adjacent to the gap using a masking tape. Even out the silicone joint with finger, rug or smooth spatula dipped in soapy solution so as to decrease adhesion. The excess of uncured silicone from hands, tools and other dirty surfaces should be removed,

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before its curing, by means of paper towel. After curing, silicone should be removed from hands by means of water with soap and from tools in a mechanic way or with silicone remover CSM 008.

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#### LIMITATIONS

- Because of acetic acid, which is released during the curing, UK PLANET silicone SN-500 is not recommended for any use on calciferous substrates, such as concrete, plaster or marble;
- CSS 664 S Silicone is not recommended for sealing joint between natural stones such as granite, sand stone .
- Do not use CSS 664 S Silicone on bituminous substrates, substrates based on natural rubber, chloroprene or on building materials which might bleed oils, plasticisers or solvents.
- UK PLANET silicone SN-500 should not be used on sensitive metallic surfaces such as cooper and its alloys or silver steel of mirrors;
- UK PLANET silicone SN-500 is not recommended for joints being constantly kept under the water because of physical changes that may occur in it;
- UK PLANET silicone SN-500 should not be applied in aquariums;
- UK PLANET silicone SN-500 is not recommended for structural glass.
- Do not use UK PLANET silicone SN-500 in totally confined spaces because the sealant requires atmospheric moisture to cure.
- CSS 664 S Silicone is neither suitable for food applications, nor for medical use. The product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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#### SAFETY AND HEALTH PRECAUTIONS

Uncured CSS 664 S Silicone can cause irritation of skin, eyes and respiratory system. In case of direct contact with eyes, wash them immediately with plenty of water and if it is necessary, seek medical advice. Work only in well ventilated rooms. Keep out of reach of children.

BEFORE APPLICATION, GET TO KNOW THE SAFETY DATA SHEET OF THE PRODUCT OR READ THE LABEL ON THE PACKING. THE SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL REPRESENTATIVE OF THE FIRM.

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#### PACKING

Silicone is packed in cartridges of volume up to 310 ml or in foil sausages of volume up to 650 ml. Store up to 12 months in a dry place, protecting from freezing or becoming overheated, at temperature up to 25°C.

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