

SILBIONE[®] TCS 7560 A&B**Soft silicone elastomer for lingerie articles****Description**

SILBIONE TCS 7560 is a two-component heat curing liquid silicone elastomer which cures by a polyaddition reaction.

Thanks to its good tear strength and softness, this product is ideally suited for application on fabrics and bands used in undergarments and lingerie, as well as fabrics for medical applications, providing excellent non-slip characteristics.

All products from the **Textile Coating System** product line are specially engineered for textile coating applications.

Advantages

- Quick cure rate, with heat.
- Excellent non-slip properties.
- Viscosity adapted to a large range of substrate.
- Softness.
- Non-staining.
- Easy-to-handle properties allow for a wide variety of applications.
- Resistance to dyes and detergents.

Applications

- Lace coating of continuous or non-continuous bands (for support stockings).
- Highly technical fabrics where non-slip characteristics are needed.
- Medical support stockings.
- Medical devices.

Characteristics**1 – Typical Properties before mixing**

	SILBIONE TCS 7560 A	SILBIONE TCS 7560 B
Appearance.....	Viscous liquid	Viscous liquid
Colour.....	Translucent	Transparent
Specific gravity, approx.....	1,04	1,0
Viscosity at 23°C, mPa.s	120 000	100 000

(Measured with Brookfield viscosimeter, needle N°6, speed 5 rpm)

SILBIONE® TCS 7560 A&B**2 – Mixing the two components**

SILBIONE TCS 7560 A100 parts
SILBIONE TCS 7560 B Catalyst.....10 parts

Pot life of the mixture at RT, approx..... 1 hour

3 – Processing / Curing

3.1 Processing

The similar viscosity of parts A and B enables quick and easy mixing thanks to disposable static mixers. Application can be carried out either manually or, in case of larger quantities, using automatic dispensing equipment. It is recommended to apply **SILBIONE TCS 7560** on clean and dry surfaces.

When packaging has been opened, material must be used rapidly and/or resealed properly.

3.2 Curing

SILBIONE TCS 7560 starts curing even in confined spaces as soon as the two parts A and B are mixed. At room temperature, the Pot life is about 60 minutes. When exposed to temperature, cure rate is increased and the material should be completely crosslinked after a few minutes at relatively high temperature.

For example, for a 1mm thick layer of **SILBIONE TCS 7560**:

Curing time as a function of the temperature (approx).....3 to 5 minutes at 90°C
 2 minutes at 110°C
 1 minute at 130°C

4 – Cured product properties

4.1 Specific gravity at 25°C 1,03
 (Standards ISO 2781, ASTM D 297, BS 903 part. A1)

4.2 Mechanical properties after 7 days at RT :

Hardness, Shore A.....21
 (Standards ISO R 868, DIN 53505, ASTM D 2240)

Modulus at 100 % elongation, MPa0.35
 (Standards ISO R37 (H2), DIN 53504, ASTM D 412)

Tensile strength, MPa1,6
 (ISO R37 (H2), DIN 53504, ASTM D 412)

Elongation at break, % 550
 (Standards ISO R 37 (H2), DIN 53504, ASTM D 412)

SILBIONE® TCS 7560 A&B**Storage and shelf life**

When stored in its original unopened packaging at a temperature of between +2°C and +30°C, **SILBIONE TCS 7560** can be used up to the expiry date indicated on the packaging.





To preserve all the properties of **SILBIONE TCS 7560**, the following conditions must be observed:

- The original closed packs must be kept at a temperature between + 2°C and + 30°C.
- The product must be used as soon as the packs are opened.

Safety

Consult the Safety Data Sheet for **SILBIONE TCS 7560**.

Visit our website www.bluestarsilicones.com

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