

RHODORSIL® TCS 7552 A & B

Description **RHODORSIL TCS 7552 A & B** is a two-component heat curing liquid silicone elastomer which cures by a polyaddition reaction. All products from the **Textile Coating System** product line are specially engineered for textile coating applications.

- Advantages**
- High bond strength without primer on textiles from different origins.
 - Long bath life at room temperature
 - High mechanical properties.
 - Solventless.
 - Medium viscosity, easily pumpable.

Examples of applications Technical textile coatings, such as coated airbags, industrial and high performance fabrics.

Characteristics

1. Before mixing

	RHODORSIL TCS 7552 A	RHODORSIL TCS 7552 B*
Appearance	Viscous liquid	Viscous liquid
Colour	Beige	Transparent
Specific gravity at RT	1.1	1.1
Viscosity at RT, mPa.s	60.000	30.000

(Measured with Brookfield viscometer, needle n° 6, speed 5 rpm)

* Other colours may be available upon request.

2. Mixing the two components

RHODORSIL TCS 7552 A..... 100 parts

RHODORSIL TCS 7552 B catalyst 10 parts

Pot life of mixture at RT, h, approx.. 16

Viscosity of the mix at RT, mPa.s 50,000

Curing time at 160 °C, approx.....1 min.

3. Mechanical properties of the cured material

(measured after cross-linking 10 min at 150 °C + 30 min at 23 °C)

Hardness, Shore A, approx..... 24

Tensile strength, MPa, approx.5

Elongation at break, %, approx..... 550

Tear strength, KN/m, approx..... .18

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4. Application properties of the coated textile

(coating of 50 g/m² on 470 dtex nylon 6,6,)

Flex abrasion resistance (ISO 5981A), cycles > 300

Peeling strength (NFT 46055, 50 mm width), N..... . 30

Flame resistance (FMVSS 302), mm/min, approx..... < 100

Air permeability at 500 Pa (DIN 53887), l/dm²/min, env.....≈ 0

Processing

- Some fillers may settle during transport and storage. To ensure a uniform mix, the components should be thoroughly stirred prior to use.
- Adhesion depends on the curing conditions. A preliminary test is recommended to determine optimum cure conditions.
- In case of hand mixing, degas the mix under vacuum 3-5 kPa before pouring.
- Curing inhibition may occur in contact with certain materials containing **tin salts**, **amines** or **sulphur**. A preliminary test is recommended.

Packaging

RHODORSIL TCS 7552 A can be delivered in 200 kg containers,
RHODORSIL TCS 7552 B in 20 kg containers.

Storage and shelf life

For its shelf life, please refer to the expiry date (best before « month-year ») marked on the packaging.

To preserve all the properties of **RHODORSIL TCS 7552 A & B**, the following conditions must be observed:

- The original closed packs must be kept at a temperature between – 20 °C and + 30 °C.
- The products must be used as soon as the packs are opened.

Safety

Consult the Safety Data Sheets of **RHODORSIL TCS 7552 A & B**.

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