



## BOSS® 544

### TECHNICAL DATA

Basis	Polysiloxane
Consistency	Stable paste
Curing System	Moisture curing
Density@23 °C (g/ml)	1.39±0.05
Skin Formation Time* (min)	8-15
Curing Rate * (23°C/50% R.H.)(mm/24 hours)	3
Flow, Sag or Slump (mm)	Non-Sag
Hardness, Shore A, Points** ISO 868	40-60
Tensile Strength, (N/mm <sup>2</sup> )** ISO 37	≥2.0
Ultimate Elongation(%)** ISO 37	>300
Dielectric Strength (kv/mm)	≥17
Volume Resistivity (Ω cm)	≥1.0 X 10 <sup>14</sup>
Temperature Resistance(°C)**	-40 → +200

\* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

\*\* This information relates to fully cured product.

### Description

BOSS® 544 is a high quality, elastic, 1-component neutral cure silicone sealant. It offers excellent adhesion and compatibility with wide variety of materials.

### Properties

- Very easy to apply
- Excellent UV resistant
- Excellent durability
- Low odour, Non-corrosive to metal
- Primer less adhesion to most materials
- UL94 HB tested and passed
- Resistance to chemical corrosion
- Resistance to yellowing, environmental corrosion, mechanical shock, thermal shock and vibration

### Applications

- For industrial and electrical application
- Sealing & bonding mechanical joints on wide variety of substrates

### Packaging

Colour: White and black

Packaging: 600 ml sausage, 25 kg pail and 270 kg drum.

### Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

### Substrates

**Substrates:** Aluminium, glass, component back plate, PPO and other all building material.

**Nature:** rigid, clean, dry, free of dust and grease.

**Surface preparation:** BOSS® 544 has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend to follow a pre-treatment procedure. There is no adhesion on PE, PP, ABS, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate. Due to the wide variety materials used in façade technology a preliminary compatibility test is necessary.



## BOSS<sup>®</sup> 544

### Joint Dimensions

Min. width for joints: 5mm

Max. width for joints: 30mm

Min. depth for joints: 5mm

Recommendation sealing jobs: Joint width = 2 × Joint depth

### Testing Standard

UL-94 HB tested and passed.

### Application Method

**Application method:** With manual or pneumatic caulking gun.

**Cleaning:** Clean with White Spirit or Surface Cleaner immediately after use (before curing).

**Finishing:** With a soapy solution (finishing solution) before skinning.

**Repair:** With the same material.

### Health and safety Recommendations

DIRECT CONTACT OF UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVEREXPOSURE TO VAPOUR MAY IRRITATE EYES, NOSE, AND THROAT. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hands. IN CASE OF EYE CONTACT, flush eyes with water for 15 minutes. Obtain medical attention. IN CASE OF SKIN CONTACT, remove from skin and flush with water. KEEP OUT OF THE REACH OF CHILDREN.

### Remarks

- Not suitable for bonding aquariums and structural glazing applications
- Do not use in areas of continuous water immersion
- Not suitable for food grade application
- We strongly recommend not to apply the product in full sunlight as it will dry very fast

**Disclaimer:** This technical data sheet replaces all previous versions. The directives contained within this documentation are the result of our experiments and experience, and have been submitted in good faith. Because of the diversity of the materials and substrates, in addition to the great number of possible applications that go beyond our control, we cannot accept any responsibility for the results obtained. Further, since the design, quality of the substrate, and processing conditions are beyond our control, no liability under this publication will be accepted. In every case, it's therefore recommended to carry out preliminary experiments. BOSS reserves the right to modify its products, without prior notice.

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