

Technical Data Sheet

Date of compilation: 02/06/2021

ARC HEAT RESISTANT SILICONE

DESCRIPTION

ARC HEAT RESISTANT SILICONE is a black high modulus, reactive curing silicone sealant specifically designed for high temperature applications. It cures quickly to reduce dirt pick up. It remains permanently flexible, forming a weathertight rubber like seal.

Benefits

- Excellent temperature resistance: remains flexible from -50°C to +300°C
- Extremely low dirt pick up. 1 hour tack free.
- Excellent adhesion to non porous surfaces.
- Waterproof seal

Areas For Use

- Multitude of Industrial uses
- As a gasket sealant.
- For joints and assemblies, which must be resistant to high temperatures in ducting, metal chimneys, industrial/domestic ovens, heating appliances.



SURFACE PREPARATION

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application. Highly porous substrates such as new plaster should first be primed with a dilution of Caulk with water at a ratio of 1:2. Can be applied to slightly damp surfaces.

APPLICATION

The surfaces to be must be clean, dry and free from dust, grease and other contaminants. Improve adhesion by wiping surface with white spirits. Priming is generally not required, although we always advise testing small areas prior to use.

Joint design should be as follows:

Minimum width: 6mm. Movement capacity will be impaired if the depth of the joint is greater than the width. For maximum movement accommodation, it is recommended that:

1. The joint depth should be no less than 5mm.
2. Joint depth should be 5mm for joints up to 10mm wide.
3. Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints.

Technical Data Sheet

Date of compilation: 02/06/2021

ARC HEAT RESISTANT SILICONE

Triangular fillets should be no less than 12mm across the face and should be finished with a flat or convex face.

Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut at an angle of 45° with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best results will be obtained by keeping an even pressure on the trigger and keeping the gun at a constant angle to the surface being sealed.

To ensure a proper bond, always smooth the sealant down with a spatula or piece of wood wetted with linseed oil or white spirits. An improved joint appearance can be achieved by placing masking tape to both sides of the joint, removing within 5 minutes of application.

LIMITATIONS

- Do not use on porous surfaces such as brick, concrete and stone.
- Do not use in conjunction with bitumen, lead or Asphalt.
- Not for use on substrates that may bleed oils, solvent or plasticisers.
- Do not use on soft metals such as lead or brass.
- On temperatures above 285°C, slight discolouration may occur, but the joint will maintain its integrity.
- Do not use above 300°C

TECHNICAL DATA

Movement Accommodation	±20%
Skinning Time	5 mins @ 20°C
Cure Time	3mm per 24 hours
Hardness Shore A	23
Shrinkage	<5%
Service Temperature Resistance	-50°C to +300°C
Application Temperature	+5°C to 40°C
Tensile Strength	1.0 MPA
Stress	0.3MPA
Specific Gravity	1.04
Minimum Joint Width	6mm
Maximum Joint Width	30mm
Joint Ratio	Maximum depth 50% of joint width
Coverage	@ 10 linear metres 9 x 9mm fillet joint

Technical Data Sheet

Date of compilation: 02/06/2021

ARC HEAT RESISTANT SILICONE

HEALTH & SAFETY

Consult MSDS for full list of hazards.

CLEANING

Uncured material and tools can be cleaned by using soap & water. Cured material can only be mechanically removed. Hands can be cleaned with Wipes.

SHELF LIFE

In unopened original packaging between +5°C and +25°C, shelf life up to 12 months from production date, stored in a dry place.

NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail technical@arcbuildingproducts.ie. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.