

HT30

High Temperature / Heat Resistant Silicone

Technical Data Sheet



PREMIERE SILICONE & SEALANT RANGE

Description:

A ready to use, one component, acetic curing heat resistant silicone sealant.

Benefits:

- ◆ *Non sagging.*
- ◆ *High Temperature resistance up to 300°C.*
- ◆ *Mildew resistant.*
- ◆ *UV resistant and weatherproof.*

HT30 has been specifically designed for high temperature use. After curing HT30 will resist temperatures of +250°C permanently and up to +300°C for short periods.

Uses

Bond It HT30 is generally used for sealing joints which are exposed to high temperatures, i.e. connections on ovens, heating systems, machines, car bodies (vicinity of engines), etc. HT30 does not lose its sealing properties under extreme conditions. Not suitable for use within 1 metre of wood burning stove flues.

HT30 can be applied to glass, ceramic tiles, enamel, epoxy paint and polyester. It can also be used with polyamides, ABS, metals and polyester in immersion or humid heat, however, a primer may be required.

Preparation

Ensure all surfaces or joints are clean, dry and free from grease, oil or any other contaminants that may hinder adhesion. Primer may be required on certain absorbent surfaces.

Application

Apply using a standard sealant gun with the nozzle cut at an angle of 45°, and to an opening slightly larger than the joint to be sealed. Alternatively HT30 can be tooled with a finger, thin piece of wood dipped in a tooling liquid or Bond It SEALANT APPLICATOR TOOL. Avoid any contamination or mechanical pressure of the sealant before skinning process has completed. Cover sealant if it is necessary.



Apply HT30 to one of the two parts to be assembled, then bring the two parts together. The sealant will start to cure on contact with atmospheric humidity. After 3 to 5 minutes exposure to air, it

is no longer possible to "rework" the product. Curing can be accelerated by increasing temperature up to a maximum of +150°C dry heat.

Limitations

HT30 is not suitable for use with aquarium building. HT30 can also cause stains around joints on marble, sandstone and other extremely absorbent substrates if they are not treated carefully with a primer. HT30 cannot be over painted, therefore substrates to be painted must be kept free of sealant. During the curing process small quantities of acetic acid are released which could attack certain kinds of metal but also alkaline substrates.

Colour

HT30 comes in 2 colours: black and red.

Container Size

310ml plastic cartridge.

Shelf Life

18 months from date of manufacture when stored in original unopened cartridges.

Storage Conditions

Store in cool, dry conditions at a temperature between +5 and +30°C.

Disposal of Containers

Do not leave empty containers where residue could be harmful to children, animals or the environment. Remove any containers to a central disposal point in accordance with local regulations.

Health & Safety

Please refer to separate material safety data sheet for full handling, use and storage instructions. Keep out of reach of children. It is the users responsibility to determine suitability for use. If in doubt contact our Technical Department for advice.

Note: this information is for general guidance only, since site conditions and labour are beyond our control. It is recommended that users make their own tests to determine suitability.

Specification Summary

Curing System	Acetic curing
Specific Gravity	ca. 1.02 g/cm ³
Shore A Hardness	Approximately 12-13
Skinning Time	12 minutes
Curing Time	2mm per day
Elongation at Break	Approximately >500%
Permanent Temperature Resistance	Approximately +250°C
Short Term Temperature Resistance	Approximately +300°C
Application Temperature	+5 to +40°C
Storage Temperature	+5 to +25°C
Flammability	Non-flammable
Modulus at 100% Elongation	0.3N/mm ³
Tensile Strength	1.5N/mm ²



Product / Order Details:

Code	Colour	Size	Barcode
BDHT30R	Red	310ml	5060021363343
BDHT30BL	Black	310ml	5060021366535



Part of the Bond It Premiere Silicone & Sealant Range



The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties rights and, if necessary clarifying the position. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the products for a particular purpose.



Certificate Number:
6152
ISO 9001; ISO 14001;
ISO 45001



BOND IT
Head Office: Unit G16 River Bank Way, Lowfields Business Park,
 Elland, West Yorkshire HX5 9DN.
Telephone: +44 (0)1422 315300 **Fax** +44 (0)1422 315310
Email: salesuk@bonditgroup.com **Website:** www.bonditgroup.com



Rev: V6 18/10/22
 Supersedes: V5 28/2/22