Silicone Dissolver No.1

Low odour solvent/remover for all silicones

1. DESCRIPTION

Silicone Dissolver No.1 chemically digests cured and uncured silicone elastomers and polymer, making them easily water or solvent rinsable.

2. ADVANTAGES

- Readily digests silicone.
- Does not contain halogenated solvents, low hazard, emulsifies with water and may be flushed away safely.
- Does not contain heavy metal or cyanide.
- Does not contain water.
- May be used on aluminum and its alloys, copper and its alloys, iron and steels, glass and ceramics, epoxy composites etc without adverse effect.
- Has little attack on rubber and other elastomers
- Has little effect on most painted surfaces.
- Ready-to-use, no diluting or heating required.
- Is safe, low odour, low evaporation, high flash point, minimal hazard rating, biodegradable actives.
- Equipment damage and downtime can be minimized.
- Expensive components can be protected from damage by harsh solvents or abrasive methods, and can be re-used.

3. SUGGESTED METHODS OF USE

a) IMMERSION

(e.g. for recovery of expensive metallic components)

Put Silicone Dissolver No.1 into a stainless steel, or polypropylene tank. H.D.P.E or mild steel are satisfactory for short term use and glass may be used for laboratory or small scale work. If a lid is fitted it will help cut down on losses by evaporation, and will minimise the risk of contamination by other liquids.
Immerse the parts to be stripped in Silicone Dissolver No.1 and leave to soak for between 1 to 6 hours, or overnight if necessary. Agitation of the system will enhance the digestion effect (i.e. immersion time will be reduced).
Remove from the tank and drain. Rinse, with water, hydrocarbon or chlorinated solvent. NB: Do not discharge Silicone Dissolver No.1, or rinse products, into drains or waterways without approvals from relevant authorities.

HELPFUL HINTS:

- For thin layers of silicone, run with a cloth wetted with Silicone Dissolver No.1.
- Preclean with solvent to remove excess oil or grease.
- If great amounts of silicone are to be removed, use two tanks: one to remove most of the silicone, the other to complete the digesting operation.

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CAUTION:

- Contamination with water or oxygenated solvents such as alcohols or ketones must be avoided. Even at low levels of contamination, the ionic state of Silicone Dissolver No.1 changes irreversibly. This will prevent its action as a silicone 'digestant', and may cause it to affect other materials.
- Silicone Dissolver No.1 will attack nylon (polyamide): use PTFE (for tubing, seals, pipework, etc). If in doubt, always test polymers with a small quantity.

b) EQUIPMENT CLEANING

Extrusion and moulding machinery, DPC injection pumps, sprayers, sealant dispensers, etc, should first be flushed with White Spirit. Silicone Dissolver No.1 should then be circulated in the equipment for at least 10 minutes. (Do not discharge the washings into clean Silicone Dissolver No.1)

c) REMOVAL OF EXCESS OR OVERSPRAYED MASONRY TREATMENT
(i.e. non aqueous silicone preparations for water repellency and anti-graffiti purposes)

Using Silicone Dissolver No.1, coat affected areas (window panes, frames, sills etc) and allow about a 10 minute dwell.

Application can be by brush or cloth, using a vigorous scrubbing action. Wash off with white spirit or with plenty of water. Repeat if necessary.

NB. Silicone Dissolver No.1 is irreversibly denatured by water : ensure surfaces are dry. Always test a small area before use to ensure compatibility.

d) REMOVAL OF SILICONE OIL STAINS
(from building facades, due to leaching of silicone oil from silicone sealants into unprepared, absorbent materials)

Remove the silicone sealant.
Apply Liquid Silicone Dissolver No.1 to all possible surfaces. (Repeated applications may be necessary, depending on the porosity of the substrate and the depth and severity of the staining).
Apply Thixotropic Silicone Dissovler No.1 to face surfaces (for enhanced effect and to act as a 'poultice' in maximizing the longevity and effect of the Liquid Silicone Dissolver No.1)
Protect from rain and leave overnight, or for a few hours.
Thoroughly rinse off with copious amounts of water (use of a pressure washer is a good idea). Allow to dry, repeat if necessary.

N.B. Always test a small area, including run down and pavement surfaces, before overall use.

e) USE OF THIXOTROPIC SILICONE DISSOLVER No.1
(for in situ removal of silicone sealants and silicone gaskets)

Cut away as much as possible of the silicone material.
Spread the paste of Thixotropic Silicone Dissolver No.1 (via brush or spatula) to cover completely the area which requires treatment (use masking tape to protect any silicone which is to be retained).

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A coating of at least twice as much as the thickness of the underlying silicone should be applied.
The dwell time for Thixotropic Silicone Dissovler No.1 may be varied between less than one hour to over 12 hours depending primarily on the characteristics of the underlying silicone and the substrate from which it is to be debonded.

NB. 5 litres of Thixotropic Silicone Dissolver No.1 at 5mm thickness, should cover one square metre.

Silicone Dissolver No.1 is specific: it will breakdown silicone sealants and mastics only. However, it may have a softening effect on some non silicone sealants (e.g. GP mastics, butyl).

NB: Always test a small area first to ensure compatibility. Silicone Dissolver No.1 is irreversible denatured by water: ensure surfaces are dry.

5. FLUOROSILICONES

Please contact Jacobson Chemicals Ltd

6. STORAGE

At least six months in original, unopened containers. Store between 0ºC to 30ºC. Silicone Dissolver No.1 will darken with age.