

WACKER E 74M

Silicone Release Emulsion

Characteristics

WACKER E 74M is a non-fugitive and primarily non-ionic emulsion containing 35% dimethyl silicone fluid. It is effective and widely used release agent for rubber.

The emulsion creates a thin but highly effective parting film. It does not carbonise or gum even at temperatures which would quickly destroy organic mould release agents, does not build up on moulds, and does not discolour or damage rubber or plastics.

WACKER E 74M gives an excellent surface finish to moulded parts. The reason for this characteristic is that the average particle size of WACKER E 74M is 0.5 microns. This fine particle size also contributes to the excellent release properties and the stability is excellent of both diluted and undiluted emulsions. WACKER E 74M is suitable for EVA release application without any build up in the mould.

Applications

Although it is used primarily as a mould release agent, WACKER E 74M is used in many other applications including the following.

1) EVA Release

WACKER E 74M is an excellent release agent for EVA release. Emulsion must be diluted in the ratio of 1:25 to 1:50 with demineralized water before spraying on the mold. Generally, better release properties with no build up is observed at 1:40 dilution.

2) Textiles

WACKER E 74M is used as a lubricant for hosiery borders. The use of this emulsion has greatly reduced the number of runs in fine hosiery during manufacturing. The additions of one percent of WACKER E 74M to the through solution reduces needles wear and yarn breakage.

3) Glass and Ceramics

Properly applied and cured onto the ceramics, WACKER E 74M forms an invisible, durable silicone film

that imparts dedicated characteristics to the treated surface. It minimizes the adhesion of other materials to the surface, thus improving free draining characteristics and facilitates cleaning. It increases water repellence, improves retention of high surface resistivity under high humidity conditions.

In vials or bottles for costly pharmaceuticals, free drainage means that less product needed to ensure a given dosage.

4) Closures

Release agents for rubber stoppers and rubber gaskets used on screw tops and bungs.

5) Bags Tubers

Release agents for surfaces of tubers used to form polyethylene and other plastic bags.

6) Wire and Cable lubricant

WACKER E 74M does not support fungus growth. Hence the appearance of stored cable is not damaged by fungi, which feed on paraffin.

7) General

Lubricant and anti-sticking agent for extruded rubber parts. Prevents newly coiled extrusions from sticking together and improves surface appearance.

Release coating for conveyors prevents sticking of products to conveyors, even those operating at high temperatures.

8) Rust inhibitor

WACKER E 74M is formulated with a small amount of sodium nitrate so that it will not cause rusting. This amount of sodium nitrate is sufficient in product-water ratios up to 1:1. In more dilute solutions, the same degree of sodium nitrate for each 100 parts of water. This should not be taken to imply that WACKER E 74M emulsion can be used as rust preventive on metal.

WACKER**SILICONES****Eigenschaften / Product data**

Typical general characteristics	Inspection Method	Value
Appearance		Milky white emulsion
pH, approx.		6 - 8
Solid content, approx..		35%
Ionic character		nonionic

Diese Angaben stellen Richtwerte dar und sind nicht zur Erstellung von Spezifikationen bestimmt.
These figures are intended as a guide and should not be used in preparing specifications.

Storage Stability

WACKER E 74M has a shelf life of at least 6 months when stored at 25 °C in the lightly closed original container. The 'Best use before end' date of each batch appears on the product label.

Emulsion showing signs of creaming should be agitated before use to assure uniform consistency.

Storage beyond the shelf life recommended on the product label does not necessarily mean that the product is no longer stable, but a quality control should be performed on the properties relevant to the application.

Safety Information

Detailed safety information is contained in each Material Safety Sheet, which can be obtained from our sales offices.