

WACKER SILICONE HS

Characteristics

WACKER SILICONE HS emulsion is a water dilutable release agent having 20% dimethyl polysiloxane together with non-fugitive¹, essentially non-ionic emulsifier. It is an effective and widely used release agent for rubber.

WACKER SILICONE HS provides following advantages over conventional dimethyl polysiloxane emulsions:

- Imparts excellent shining on natural rubber surface and also on EVA sheet.
- Excellent mould release agent for rubber.
- Leaves no tarry, carbonaceous residue on the mould.
- Has good emulsion stability, both as supplied and in diluted form.
- Stable at temperatures as high as 50°C and as low as 0°C.
- Low cost.

Features

Total solid percentage	25
Percentage of Silicone	20
Colour	White
Consistency	Viscous
Type of Emulsifier	Non-fugitive, essentially non-ionic

Applications

- 1) **Shining of rubber surface**
 - a) **Rubber Slipper²:** WACKER SILICONE HS imparts excellent shining on rubber strip as well as inner surface of the slipper. It can be applied by simple brushing on the rubber surface. Best result is obtained when WACKER SILICONE HS is used in 1:1 ratio with water.
 - b) **Bicycle Tyre:** WACKER SILICONE HS creates a bright shine on bicycle tyres. Here, it is used in the ratio of 1:1 with water.
- 2) **As a Release Agent**
 - a) **Slipper Sheet (Hawai Sheet):** Generally, Sheet dimension is 6mm to 12mm thick having area 36"x 36". WACKER SILICONE HS gives excellent release of the sheet from the mould. For better release, fresh coating is required every time on the mould surface. Coating can be applied by spraying in the ratio 1:5 with water.
 - b) **Micro Cellular Sheet:** This sheet is required for lower portion of slippers. Sheet dimension is 1mm to 8mm thick having area 36" x 36" or 30" x 30". Here, WACKER SILICONE HS is used as a release agent from the mould. Application process is similar to Slipper sheet as above.

Storage stability

Storage and Shelf Life

WACKER SILICONE HS must be used within one year from the date of manufacturing. To preserve all the properties of METROARK HS, the following conditions must be met -

- Keep the original packs closed and at temperature of 30°C but not lower than 0°C.
- Use the products on opening the packs.

Packing

WACKER SILICONE HS is available in 20Kg, 35Kg and 200Kg containers.

Applications

- c) **Banwar Sheet:** This sheet is necessary for upper portion of the slipper. Sheet dimension is almost 1mm to 8 mm thick having area 36" x 36" or 30" x 30". Here, WACKER SILICONE HS is used as a release agent from the mould. Application process is similar to Slipper sheet as above.
- d) **Bicycle paddle and brake shoe:** WACKER SILICONE HS is used as a mould release agent and can be used directly or in 1:1 ratio with water.
- e) **Bicycle tyre:** WACKER SILICONE HS is an effective release agent in the manufacturing of bicycle tyre. WACKER SILICONE HS is being used directly or in 1:1 ratio with water.
- f) **EVA Sheet³:** For the manufacture of EVA sheet, WACKER SILICONE HS is used as a release agent. For effective release, WACKER SILICONE HS can be used in 1:5 ratio with water.

Applications

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Product Safety

When considering use of any Metroark product in a particular application, you should review our latest Material Safety Data Sheets and ensure that the use you intend can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact Metroark Sales Office nearest to you. Before handling any other products mentioned in the text, you should obtain available product safety information and take necessary steps to ensure safety of use.

NOTES:

1. Preventing growth of fungus.
2. Footwear – Sandal.
3. Ethyl Vinyl Acetate – substitute for rubber in sandals

These figures are intended as a guide and should not be used in preparing specifications.

Silicone laboratory samples (SLM) are development products. Therefore, we cannot at present give any binding assurance of constant properties or of continuous supplies in future."

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 standards 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 express or implied, of the fitness or suitability of the product for a particular purpose.

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