

Product Name: Water Repellent Treatment

Item No.: SilibaseMH-8484



Description: SilibaseMH-8484 Water Repellent Treatment is a highly effective, anhydrous silicone based on polymethylhydrogensiloxane. SilibaseMH-8484 Water Repellent Treatment is a methyl hydrogen polysiloxane that is end-capped with trimethyl siloxy groups. The product is primarily used to treat powders to keep them dry, as an anticaking material and is highly water-repellent. It is used in concentrations from 0.5 to 1.5 percent by weight and will encapsulate or coat the finest particles with a thin, cured coating. The fluid is used with cosmetic powders,

fertilizers, silica, glass beads, titanium dioxide pigments, sodium chloride and lime. The product may be cured with steaming or an organo-tin salt, such as stannous octoate or dibutyl tin dilaurate. However, the process will produce hydrogen gas and proper safety conditions must be observed since the gas is flammable and can be explosive. SilibaseMH-8484 Water Repellent Treatment is also reactive with vinyl silicone polymers in the presence of a platinum catalyst to produce a cured silicone rubber. However, the product will produce a very highly crosslinked rubber that will need to be adjusted or diluted to obtain a more suitable silicone rubber with improved elongation. It is one kind of Silicone Oil for Plasterboard as water repellent agent. Furthermore it can be used as waterproofing agent for ceramic, plaster elements, gypsum board, plaster block, wallboard, silicone water repellent treatment,

Competitive Products in the Market:

Equivalent of Momentive TSF484, Same as Baysilone MH-20, Similar as Shin Etsu KF-99, Analogue of Dow Corning MH 1107 Fluid, Replacement of GE SF1040, Equal to Rhodorsil H68, Homologous to Waker SILRES BS 94.

Synonyms:

Methyl hydrogen silicone, Waterproofing silicone

Chemical Names:

Methylhydrogenpolysiloxane

Advantages:

SilibaseMH-8484 Water Repellent Treatment is Silicone Oil for Gypsum Industry which has the

following advantages:

- Colorless transparent liquid
- High hydrogen content
- Non-toxic
- Low acid value
- Don't acid reflux
- Solvent-free

Appearance:

- Colorless, tasteless, and transparent oily fluid
- Hydrogen Content: 1.56% ~ 1.65%
- Viscosity: (25°C, mm²/s) 15.00 ~ 40.00
- Volatile Content(150°C, 3H): ≤4%
- Refractive Index (ND25): 1.390 ~ 1.410
- Density (g/cm³): 0.995 ~ 1.015
- Flash Point (°C): >170°C
- PH:6-8

Processing:

SilibaseMH-8484 Water Repellent Treatment is added to the mixing / gauging water of the plaster. The addition of just 0.2-0.4% SilibaseMH-8484, expressed in terms of the plaster, effects a marked reduction in water absorbency as required by DIN EN 520. The efficiency of SilibaseMH-8484 depends on the kind of plaster, on the water / gypsum ratio and on additives such as starch / cellulose or surfactants. This is why no general recommendations on the dosage of SilibaseMH-8484 can be given. Preliminary tests are always necessary for establishing the required amount. Alkaline components of the plaster may lead to diminution of the bulk density and the water repellency of the plaster elements. SilibaseMH-8484 Water Repellent Treatment is not recommended for surface treatment of plaster elements. Suggested formulation for laboratory tests: 1,25g of SilibaseMH-8484 Methyl Hydrogen Silicone Oil is mixed into 400g of deionized water with a turbine mixer (at least 1,000rpm) for 30 seconds. 500g of plaster of paris is added to this mixture. The mixture stirred with a paddle mixer for one minute and then poured into PVC rings (diameter: 8cm, height: 2cm).

After setting, the samples are removed from the PVC rings and dried for 24 hours at 40°C in an exhaust hotair cabinet with open flap. Subsequently the samples are dried for six days of room temperature; during that time, they will reach their constant weight. To determine water absorbency,

the samples are placed horizontally into deionized water so that they are covered by 5cm of water (DIN EN 520). After 2 hours they are taken out, the remaining drops on the surface are removed and the samples are weighed. The mean water absorbency of at least 3 samples is calculated; as a rule, it is below 8% expressed in terms of the dry weight of the plaster samples before immersion in water. Untreated samples produced by the same method have a water absorbency of about 50%.

Shelf Life:

The shelf life, when the container is stored unopened and under proper conditions (in temperatures below 50°F - do not allow to freeze), is expected to be a minimum of twelve months.

Packing:

Normal packing is 200kgs per drum and 1000kgs/IBC. SilibaseMH-8484 packaging options are available upon request.

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