

## Polyethylene wax %100

**Polyethylene wax** is an emulsion wax based on oxidized polyethylene. This wax is dissolvable in hot water and could be used in emulsion form

### Properties:

Appearance: Yellow

Flakes Nature: Oxidized Polyethylene

Ionity: Nonionic

pH (1:10 solution): 8.5 - 8

Solid Content%:  $1 \pm 98$

Melting Point: 80 – 75

Shelf Time: 12 months

Acid Number: Less than 3

Safety: According to our best experience, it doesn't have any harmful effect on health.

Packing: 25 kg polyethylene bags

### Applications & Recommendation

Dilution method of **Polyethylene wax**

### First Method:

**a:** prepare °80C DM water to 90 – 65 % and adjust its PH to 6-5 with acetic acid. Meanwhile, the water hardness must not be above 50ppm.

**b:** pour 35-10 % of wax MUPE100- in the vessel and start the mixer with 65-35 RPM and run it for 60-30 minutes So that, the flakes are covered by water until an uniform product is formed. When you make sure that the whole of flakes be dissolved in water, you must reduce the temperature to 45 °C and then discharge it. Moreover, into during of Mixing, the water temperature must not be lower than 80 –78 °C.

### Second Method:

Specified amounts of Rockawax MUPE100- and DM water will be poured in Steel double jacked container and increase temperature to °80-75C. then start the Mixer with 65-35 RPM and run it for 60 – 30 minutes.

### Recommendation

Adding a strong preservative for emulsions that should be maintained more than one week is obligatory. biocide Triazine01 of Rock Chemie can be added %0.2 to %0.1 or sodium benzoate is recommended. Although, this emulsion has high stability in different conditions from the environmental point of view, but stirring it before using is recommended.



021-88864998  
021-88865279  
0912-5248514



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## Advantages

- \* This wax is dissolvable in water and it can render a uniform and stable emulsion.
- \* This product is free from non-standard chemicals like: formaldehydes, Alkyl phenol Etoxylate detergents and etc.
- \* It is compatible with a wide range of anionic, cationic and amphoteric additives.
- \* This product is dilutable with different types of aromatic solvents and organic esters.
- \* It has no bad odor so that it is useable with a wide range of perfumed additives.
- \* Handling is very easy.
- \* Its emulsion is compatible with different types of organic dyes.
- \* This product is applied in a wide variety of industries.



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