



r u b e
PRODUCTOS TÉCNICOS S.L.

Camiño do bosque, 11
Apdo 73 - 36417 - Mos
Pontevedra - SPAIN
Tel: +34 986 344 090
Fax: +34 986 344 864
rube@rubept.com
www.rubept.com



TECHNICAL SHEET

SILICONE EMULSION E-11

DESCRIPTION

Effective and easy to use emulsions of dimethylpolisiloxane. They are stable, water dilutable and primarily non ionic in nature. They are specially designed for use in a wide variety of applications.

SPECIAL FEATURES

- Excellent release characteristics
- Does not carbonise or gum at mould temperature
- Does not build up on moulds
- Does not discolour moulded parts
- High Surface abrasion resistance and water repellency
- Good Deep glossing
- Good freeze-thaw stability
- Good storage stability

GENERAL CHARACTERISTICS

Appaerance	Milky White emulsion
Emulsion Type	Oil in wáter
Nature	Non Ionic
Silicone content w/w	35 %
Special gravity (at 25°C)	0.99-1.00
pH	6.5-7.5
Diluent	Water

Silicone emulsions are versatile products and could be used for any application where the properties of silicone in an aqueous medium are desired.

RELEASE

The most widespread application to which Silicone Emulsions are put is release. E-11 is the preferred product for release applications. They are used mould release of rubber tyres, soles, plastics such as poliethylene and PVC, thermosetting plastics viz, phenolic, urea-formaldehyde and acrylic resins.

As release agents E-11 o E-181 are applied in diluted form and the extent of dilution will depend on the intricacy of the mould and difficulty of release. The diluted emulsion is sprayed, brushed or wiped on to the mould Surface. Excess must be avoid. After application, enough dryind time must be given to allow all moisture to evaporate from the surface. For best results an throughly clean moul must be used for the application.

TEXTILES

In textiles, the silicone Emulsions may be used as ancillary softener bath additives to give added lubricity and body to the fabric. They may also be used as thread lubricant emulsions to avoid breakage of threads during processing.

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POLISHES

As a speciality additive E-11 provides good gloss spreading characteristics with minimum smear.

OFFSET-PRINTING

Silicone Emulsions may be applied in the offset printing process to avoid static development and entangling of the paper. Besides this they provide gloss, sheen and much desired smooth surface finish to the paper.

STORAGE AND SHELF LIFE

To ensure safety and best use methods the following conditions must be respected.

- Avoid freezing or heating of the material.
- Seal the packing properly when not in use.

When stored in original unopened containers at 25°C E-11 emulsions may have a useful life up to 12 months. However our warranty on the product is for 6 months after the date of manufacture of the product.

HEALTH AND SAFETY

In case of contact with eyes, wash immediately in a good current of water under low pressure at least for 15 minutes. Consult physician if irritation persists after 24 hours. Safety Data Sheet available on request.

TOXICOLOGICAL INFORMATION

E-11 Silicone Emulsions possess a low order of toxicity and should pose no hazard incidental to industrial handling if reasonable care and cleanliness are observed. The acute oral toxicity is low — $DL_{50} > 35\text{g/kg}$ in rats.

PACKAGING

E-11 AND e-181 are supplied in 25, 60, 200 and 1000 kg containers.

The product has a twelve-month self life if stored in its original container at room temperature.

It is recommended that the product be slightly stirred before it is used and be stored completely closed.

OTHER INFORMATION

For more information, ask for the Safety Data Sheet. Check the label of the packaging.

The information of this sheet is based in our knowledge. It only refers to the indicated product and does not mean any guarantee of its particular qualities. The user must ensure the suitability and accuracy of this information related to the specific use of the product.