

SKISH GP-1

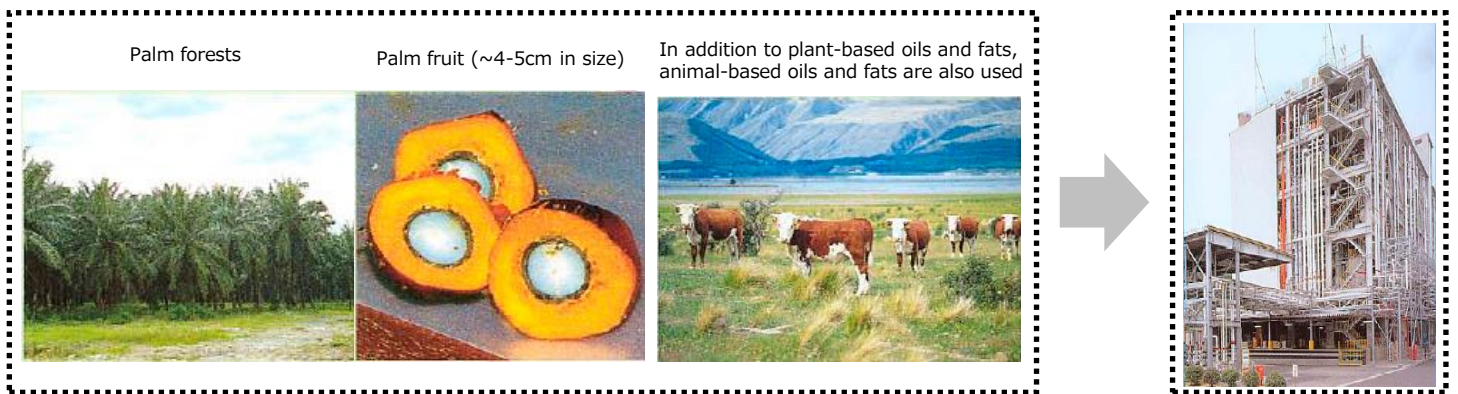
KaO

Dust-reducing Admixture for Cementitious Hardening Agent

Characteristics

SKISH GP-1 is a dust-reducing admixture made from naturally-derived oils and fats used in cementitious hardening agents. Improving on-site work environments as well as preserving the integrity of work-site surroundings, SKISH GP-1 is our recommendation for use in environmentally-friendly ground construction.

Raw materials obtained from naturally-derived oils and fats Extraction/ Refining



Naturally-derived Dust-Reducing Admixture (SKISH GP-1)


KEY POINT

There are numerous issues (cost, supply) with using petrochemical-based diethylene glycol (DEG). In addition, proper attention must be paid with respect to its handling and safety.

SKISH GP-1 was researched and developed with due regard to safety as well as cost efficiency performance; its key characteristic being its production from sustainable, naturally-derived oils and fats. With its superb water-retention capabilities, hydration reactions of hardening agents are well-suppressed during storage conditions.

Natural ingredients usage

Dust-reducing Admixture Safety Information

	SKISH GP-1	DEG (Diethylene glycol)
GHS Pictogram Label	N/A	 Dangerous
Hazard Information	N/A	Possible reproductive toxicity effects. Prolonged or repeated exposure may lead to liver or kidney disorders.
Fire Services Act	N/A	Class 4 Flammable Liquid Class 3 Petroleum Water Solubility

Test Results

Mixing Procedure

While mixing 500g of ordinary cement in a mortar mixer (62rpm slow velocity), add dropwise the specified amount of SKISH GP-1. After addition is complete, continue mixing at 62rpm for 7 minutes.

Performance Evaluation

• Dust-reducing performance

24h after mixing, weigh out 10g of the solid material and place in on a 500µm sieve. The dust-reducing performance is evaluated based on the quantity of solid material that passes through the sieve after sieving. (sieved solid material / total solid material X 100%)

• Solid content amount

Strain/brush lightly the solid content remaining on the sieve with your finger. Measure the remnant amount of solid content.



Test Results

SKISH GP-1 was shown to have equivalent dust-reducing performance to that of **DEG**.

	Dosage* (kg) *per MT of hardening agent	Mixing time	Solubility properties Viscosity (mPa·s)	Test Results	
				Dust-reduction 500 µm sieve residue	Solid amount 500 µm filtered residue
DEG	30	7	40.5	89.4	0.0
SKISH GP-1	40	7	63.5	90.1	0.0

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose. For more enquiries, please contact the following.