Product Information Textile Auxiliaries

GGSIL HYDRO RAW

Concentrated Hydrophilic Silicone Oil

PROPERTIES :

Non-ionic (Slightly Cationic) structure
No-solubility in water
Freezing Point : <-10
Used for all natural, synthetic fiber mixtures and towels.
Provides very soft,smooth and supple handfeel, and excellent hydrophility
increases the wearing comfort of textiles thanks to its hydrophilic feature
Increases tear strength and sewability of fabric.
Provides antistatic properties to the fabric.
Re-wettable properties is very high.
Can provides higher abrasion resistance.
Does not cause yellowing problem at high temperature drying and does not cause colour changes.

PREPREATION :

An example emulsion recipe that can be prepared is as follows. Example formulations are provided for illustrative purposes only. Emulsifier type and usage amount, depending on the user's demands in the final product.

SUBSTANCES	RECIPE 1 (%)	RECIPE 2 (%)	RECIPE 3 (%)
GGSIL HYDRO RAW	13	13	13
6EO	5	-	
5EO	-	5	7,5
BUTYLCARBITOL	2	2	2
ACEDIC ACID	0,075	0,075	0,075
PURE WATER	x	x	x
APPEARANCE			

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PREPREATION :

SUBSTANCES	RECIPE 4 (%)	RECIPE 5 (%)	RECIPE 6 (%)	RECIPE 7 (%)
GGSIL HYDRO RAW	20	20	20	20
6EO	5	7,5		
5EO	-		5	7,5
BUTYLCARBITOL	2	2	2	2
ACEDIC ACID	0,075	0,075	0,075	0,075
PURE WATER	x	x	x	x
APPEARANCE				

APPLICATION :

Recipe :

Exhaust systems

GGSIL HYDRO RAW (20% SOL.) 1,5% – 4,5% owf

at 40 °C run for 20' It is necessary to adjust pH to the 5-5,5

Padding systems

GGSIL HYDRO RAW (20% SOL.) 20 - 40 g/l

Curring at 110 – 130 °C max.170°C
pH: 5 – 5,5
Use Acetic acid for pH adjustment.

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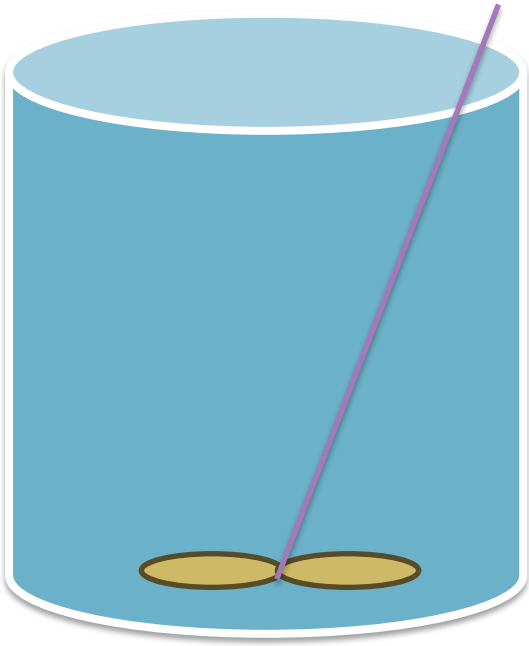
PREPREATION :

- It is mixed under a mixer with suitable emulsifiers (TRIDECYL ALCOHOL 5 EO, TRIDECYL ALCOHOL 6 EO, and BUTYL CARBITOL) as stated in the sample recipes.
- In the emulsion, 40 – 45°C water is used to which acetic acid is added in the amount prescribed. First, 25% of the total water with acetic acid is added to the oil-emulsifier mixture at medium speed.
- After a homogeneous image is obtained, the second 25% is added at medium speed. Mix until homogeneous. Finally, the remaining water is added at medium speed. Continue mixing until homogeneous.
- The pH value of the emulsion is checked. If necessary, final pH is adjusted between 5.5 - 6.0 with acetic acid.
- Since it is a silicone finishing agent, the final product should be used by straining or filtering through the fiber.
- The resulting emulsion can be diluted in desired proportions and used.
- It is possible to prepare different emulsions by increasing or decreasing the proportions of the emulsifiers used.



Storage :

The product sensitive to frost and heat and must not be stored at temperature below 0°C or above 40°C . Irreparable damage is possible. In case of suspected frost or heat damage , the usability of the product has to be checked before processing.

Attention :

The above recommendations are based on comprehensive studies and experience made in practical finishing. They are, however, without liability regarding property rights of third parties and foreign laws. The user should test for himself whether the product and the application are suited for his very special purposes. We are, above all, not liable for fields and methods of application which have not been put down by us in writing. Advice for marking regulations and protective measures can be taken from the respective safety data sheet.

GG Chem :

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