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EcwaSil SE100 C350

TECHNICAL DATA SHEET

DESCRIPTION

EcwaSil SE100 C350 is a Low/Medium Viscosity (350cST) Polydimethylsiloxane (Silicone Fluid) Emulsion Concentrate Paste. It is economical and Versatile: Allows the end-user to Simply Dilute down to Required Activity. It dissolves in water in 15-30 minutes with agitation. It is safe to handle and does not contain any Phenol Ethoxylates, nor Formaldehyde. As such, **EcwaSil SE100 C350** is also Environmentally Acceptable.

FORMULATION/COMPOSITION

In Dilution **EcwaSil SE100 C350** is:

- Ideal for **Offset Web Printing**, where Low Surface Tension provides for Better Penetration of the Paper.
- Suitable for use in **Automobile, Furniture and Shoe Polish formulations** - the intermediate viscosity of the Diluted product provides Good Gloss with Minimum Smear to polish formulations.
- **Compatible** with most Other Silicone Emulsions, should Blending be required.
- Can be used where **Water-based Release Agents** and **Lubricants** are suitable.
- **Cosmetic Formulations**; where Silicone Emulsion of Varying Activity/Viscosity is often required.
- **For Dilutions**: See Dilution Chart & Instructions on Page 2.

PROPERTIES/APPLICATIONS/USE

FINAL DILUTIONS:

* **EcwaSil SE100 C350** is stable when diluted, with water, at ratios of 4:1 (80% of formulation) right up to 1:200 (0.5% of formulation). Lesser dilution (i.e.-1:1 or 50% can exhibit a slight creaming after 5 days, but gentle agitation will reconstitute the product and/or prevent it from happening.

Although the inclusion of other surfactants and/or salts is not anticipated in silicone formulations, **EcwaSil SE100 C350 can tolerate some addition of these elements, but final product stability testing is recommended.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear to slightly opaquepaste
Odour	Mild
Viscosity(at 20°C)	High
Solubility	Soluble in Water
pH (as manufactured)	6.00 -8.00
Active Ingredients	Low/Medium viscosity (350cst) Polydimethylsiloxane (PDMS), proprietary emulsifiers and preservatives

MANUFACTURER/SUPPLIER

Ecwamix Chemical Systems (Pty) Ltd
 3 Granville Avenue Lea Glen Rodepoort, Gauteng South Africa

Information
 Tel: (o/h) +27 011 472 2256 Fax: +27 011 472 2121
 E-mail: ecwamix@netactive.co.za

Emergency contact:
 Office hours: 011 472 2256



SAFETY & HANDLING

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PHYSICAL & CHEMICAL PROPERTIES

Stability in formulation	Stable at pH 3.0 - 9.0
% Active Content	97-100% w/w
Shelf Life as supplied	At least 1 year at ambient conditions. At least 6 months at 40°C.

This data does not represent a specification - please see current "Certificate of Analysis". For further data please also request a copy of the MSDS (Material Safety Data Sheet).

FEATURES

VERY Economical in such High Concentration.
High Gloss and Water Repellence.
High Abrasion resistance on surfaces treated.
Good Lubrication properties.
Excellent Resistance to Adhesion.

STORAGE

At least 1 year at ambient conditions.
At least 6 months at 40°C.

PACKAGING

EcwaSil SE100 C350 is available in

25 Kg Bucket - Polypropylene
200 Kg Plastic Open top Drum (HDPE)

DISCLAIMER / NON-WARRANTY

This product has been subjected to limited tests and has been shown to perform well. The information contained herein is to our best knowledge true and accurate, but since the conditions of use are beyond our control, Ecwamix Chemical Systems cc. disclaims any liability in connection with the use of this product and/or information. Warranty extends only as far as to the replacement of material shipped if not compliant with the specification as set out in the attached "Certificate of Analysis" and within the expiry period of the said product. All recommendations or suggestions are made without guarantee. It is good practice to conduct one's own application tests on a small area prior to using the product.



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DILUTION TABLE

NOTE: It is recommended that the dilution of **EcwaSil SE100 C350** should be done with De-lonised Water for Ultimate Stability

% Use		20%		30%		60%		80%	
Ratio		1 : 4		1 : 2.5		1 : 0.667		1 : 0.25	
Batch Size that you wish to make (in Litres)	Litres	Conc	Water	Conc	Water	Conc	Water	Conc	Water
	2	0.40	1.60	0.60	1.40	1.20	0.80	1.60	0.40
	5	1.00	4.00	1.50	3.50	3.00	2.00	4.00	1.00
	10	2.00	8.00	3.00	7.00	6.00	4.00	8.00	2.00
	20	4.00	16.00	6.00	14.00	12.00	8.00	16.00	4.00
	50	10.00	40.00	15.00	35.00	30.00	20.00	40.00	10.00
	100	20.00	80.00	30.00	70.00	60.00	40.00	80.00	20.00
	200	40.00	160.00	60.00	140.00	120.00	80.00	160.00	40.00
	250	50.00	200.00	75.00	175.00	150.00	100.00	200.00	50.00
	300	60.00	240.00	90.00	210.00	180.00	120.00	240.00	60.00
	500	100.00	400.00	150.00	350.00	300.00	200.00	400.00	100.00
	1000	200.00	800.00	300.00	700.00	600.00	400.00	800.00	200.00
	2000	400.00	1600.00	600.00	1400.00	1200.00	800.00	1600.00	400.00
	3000	600.00	2400.00	900.00	2100.00	1800.00	1200.00	2400.00	600.00

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DIRECTIONS FOR USE

Using the chart above, First Decide on the Size of the Batch that you wish to make (first column: Batch size). Now Decide on the Dilution (% active/strength) of your Finished product (Blue Rows across the top: Ratio). Let's assume you decide to make 200 Litres of Silicon Emulsion at a Strength of 1:0.666 (60% Active). If you look across from the number 200, in the ratio column, to the Conc column under 1.0.666 (60% Active), you will see that you need 120Kg of **EcwaSil SE100 C350**. The blue column (water) to its right tells you that you need 80 Litres of De-Ionised water.

1. Fill the tank with approximately 40% (32 Lt) of the allotted De-Ionised water (80 Lt).
2. Using your scale, weigh 120Kg of **EcwaSil SE100 C350** into a bucket/s.
3. Now steadily Pour in the **EcwaSil SE100 C350**, scraping out as much from the bucket/s as possible.
4. Place your Mixer in the mixing tank and start it running at a moderate to high speed. Leave the mixer running for at least 20 - 30 minutes.
5. Now, with the Mixer Running, add the Remainder of the allotted De-Ionised water (48 Lt). Leave the mixer running for at least 20 - 30 minutes until all the **EcwaSil SE100 C350** has Dissolved.
6. Switch off the mixer after 30 minutes and allow the air to come out.
7. **Optional:** Start the mixer and add a Suitable Preservative, such as **EcwaCide IT** at an addition of 0.1 0.15% (for Long Term Shelf Storage).

The Manufactured Silicon Emulsion (i.e. 60%) can now be packed off for Resale, Used as is in your Own Formulation, or DILUTED FURTHER to Required Activity, Either for Resale or for Use In your Own Formulation.

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