Published on: 01/12/2010
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APconc B2-CLR

TECHNICAL DATA SHEET

DESCRIPTION

APconc B2-CLR is an all Purpose Cleaner Concentrate All-Purpose Cleaner – Concentrate (Un-Fragranced & Non-Ammoniated).

This paste concentrate consists of Anionic & Non-Ionic Surfactants, Water Conditioners, Pigments and Preservatives.

The first step requires the addition of the ***APconc B2-CLR*** to the water in the mixing vessel, it dissolves in 10 - 15 minutes with moderate agitation, 3-5 hours without. Once fully dissolved, allow air to come out.

The Next Step is to add a percentage of either: a) 0.5-1.5% Ammonium Hydroxide (25%) or b) 0.2% of a suitable Fragrance to the mixing vessel while stirring. Now stir in.

Lastly, it only requires the addition of a measured quantity of Salt (± 2%) to produce a finished Non-Abrasive All-Purpose Cleaner of impressive Viscosity, Appearance and Value for Money.

PROPERTIES/APPLICATIONS/USE

Recommended Dilutions for Non-Abrasive ALL-PURPOSE Cleaner (Ammoniated or Fragranced):

a. 1 (***APconc B2-CLR***) : **11.5 (Water)** - (8%) – **Economy Product** (5.28% Active)
b. 1 (***APconc B2-CLR***) : **9.0 (Water)** - (10%) – **Standard Product** (6.60% Active)
c. 1 (***APconc B2-CLR***) : **7.3 (Water)** - (12%) – **Premium Product** (7.92% Active)

PHYSICAL & CHEMICAL PROPERTIES

Appearance	White/Translucent
Odour	Typical
Form	Viscous Paste
Viscosity	22 000 cps @ 25°C Brookfield RVT #6 Spindle @ 5 RPM
pH (as manufactured)	8.5 – 9.5

% Active Content	Total Surfactants: ± 66%
Precautions	May cause respiratory irritation due to High Concentration.
Handling	Non-Flammable. Keep containers closed to prevent ingress of water. Wear gloves & respiration apparatus when handling raw concentrate.

MANUFACTURER/SUPPLIER

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SAFETY & HANDLING
Always consult the Material Safety Data Sheet before Use

PRODUCT CODE
APconc B2-CLR

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Your Specialist Partner in Sustainable Chemical Solutions

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PROPERTIES/APPLICATIONS/USE

Suggested "Non-Abrasive All-Purpose Cleaning Liquid" formulations using ***APconc B2-CLR***:

a. Non-Abrasive All-Purpose Cleaner: Economy: 8%						
		Batch size - All weights in Kg				
INGREDIENTS	**% USE**	**100**	**200**	**300**	**500**	**1000**
Water (Approximate	92.00%	92.00	184.00	276.00	460.00	920.00
APconc B2-CLR	**8.00%**	**8.00**	**16.00**	**24.00**	**40.00**	**80.00**
Fragr.- Lemon/Etc	0.20%	0.20	0.40	0.60	1.00	2.00
OR:Amm Hydr. 25%	1.0%	1.0	2.0	3.0	5.0	10.0
Salt-QS to Req Visc.	2%	2	4	6	10	20
Total	**100%**					

b. Non-Abrasive All-Purpose Cleaner: Standard: 10%						
		Batch size - All weights in Kg				
INGREDIENTS	**% USE**	**100**	**200**	**300**	**500**	**1000**
Water (Approximate	90.00%	90.00	180.00	270.00	450.00	900.00
APconc B2-CLR	**10.00%**	**10.00**	**20.00**	**30.00**	**50.00**	**100.00**
Fragr.- Lemon/Etc	0.20%	0.20	0.40	0.60	1.00	2.00
OR:Amm Hydr. 25%	1.0%	1.0	2.0	3.0	5.0	10.0
Salt-QS to Req Visc.	2%	2	4	6	10	20
Total	**100%**					

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PROPERTIES/APPLICATIONS/USE

Suggested "Non-Abrasive All-Purpose Cleaning Liquid" formulations using ***APconc B2-CLR***:

c. Non-Abrasive All-Purpose Cleaner: Premium: 12%						
		Batch size - All weights in Kg				
INGREDIENTS	**% USE**	**100**	**200**	**300**	**500**	**1000**
Water (Approximate	88.00%	88.00	176.00	264.00	440.00	880.00
APconc B2-CLR	**12.00%**	**12.00**	**24.00**	**36.00**	**60.00**	**120.00**
Fragr.- Lemon/Etc	0.20%	0.20	0.40	0.60	1.00	2.00
OR:Amm Hydr. 25%	1.0%	1.0	2.0	3.0	5.0	10.0
Salt-QS to Req Visc.	2%	2	4	6	10	20
Total	**100%**					

DIRECTIONS FOR USE

1. Charge mixing vessel with the Required amount of Water. Start the mixer at a moderate to high speed – avoid drawing in air at all times!
2. Now steadily pour in the required amount of ***APconc B2-CLR***, and stir until smooth and thoroughly dispersed. At this point, the mixer can be switched off for 10-20 minutes, if necessary, to allow any air to escape.
3. Stir in measured amounts of either a fragrance of choice OR Ammonium Hydroxide 25%.
4. Start the mixer again at low speed and begin to slowly pour in the Salt. After ± half the Salt has been added, the mixture will begin to thicken. Increase the speed of the mixer while adding the remaining Salt, keeping the mixture moving all the time.
5. Once all the salt has been added, continue mixing for 5 minutes at high speed. If necessary, add more water to bring the batch up to the Required Mark.
6. Switch off the mixer and let the Batch stand for 10 minutes, check with a spoon to see if your Product is Thick enough, just remember it will get slightly thicker once it has stood for about 12 hours.
7. Check the pH to 8.5 – 9.5.
8. PLEASE NOTE: When using the Ammonium Hydroxide-25%, the end pH will be between 9.50 – 10.50.

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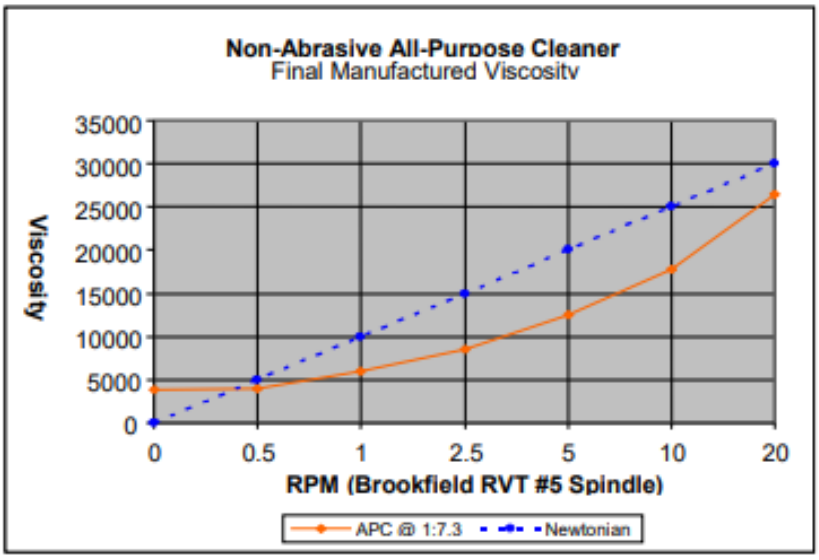
Congratulations, you have just manufactured your first batch of: Non-ABRASIVE All-PURPOSE CLEANER (Ammoniated or Fragranced)!

FINISHED PRODUCT – VISCOSITY ANALYSIS



(Left) Graph: A thixotropic rheology is one in which a certain amount of energy must be applied before motion will occur, and is indicated by a graph line that begins at some value on the 'Y' axis (viscosity) for an 'X' axis (energy) value of '0' (see Orange line on graph). This is actually what the word "Gel" refers to. Providing that the value of energy required for motion to occur, is higher than the potential energy (gravity) of the particulate, then motion cannot occur and the particulate will remain suspended indefinitely. You will notice that the graph line (Orange) of our product begins at around 4000cps; this indicates a stable product in which no separation will occur!)

One of the greatest problems as far as the production of an Economical Non-Abrasive All-Purpose Cleaner is concerned, is

a. the Cost of a Non-Abrasive All-Purpose Cleaner as opposed to that of an Abrasive All-Purpose Cleaner (as the Abrasive-Calcium Carbonate is relatively inexpensive as opposed to the amount of Surfactants used to provide a Non-Abrasive All-Purpose Cleaner with the equivalent cleaning activity) and

b. Viscosity (Thickness - is a critical aspect of the both Non- & Abrasive All-Purpose Cleaner formulations).

These types of products inherently contain a solid particulate (abrasive element or filler), which, by way of the fact that it is heavier than water, will always tend to settle in the bottom of the product. This separation is clearly visible as a layer of white powder settles out of the clear detergent system, and is guaranteed to stop a consumer from purchasing the product. This is one of the primary reasons why these types of products are always packed into opaque bottles.

The Consumer Market has further indicated a movement away from the use of Abrasive All-Purpose Cleaners in Favour of Non-Abrasive All-Purpose Cleaners. This Shift in the Market is a result of the damage caused(to the various modern hard surfaces) by the Abrasives. Manufacturers of various hard surfaces(including Stainless Steel, Enamel, Vinyls, Plastics and Coatings) used in the manufacturing of Appliances, etc. are promoting the use of a Non-Abrasive All-Purpose Cleaner.

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We, at Ecwamix Chemical Systems have developed ***APconc B2-CLR*** & ***Ecwamix APconc B-FR*** which is a Highly Active Non-Abrasive Cleaner Concentrates that can be Diluted, Fragranced (Optional) and Thickened to a Finished Product that Performs Excellently, Matches the Appearance and Effectivity (of Abrasive All-Purpose Cleaners) and is Simple and Economical to Produce.

PACKAGING

APconc B2-CLR is available in

200 Kg Plastic Open-Top Drum (HD Poly-Propylene)
20Kg Plastic Bucket (Poly-Propylene)

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