

FORMULATION

Jarchem™ Shower and Bathroom Cleaner Formula No. JY01147-2

PHASE	INGREDIENTS	COMMON NAME	Function	%	SUPPLIER
	Water	Aqua	Solvent	91.0	
A	Jarfactant L30 RSPO MB	Sodium Lauroyl Sarcosinate	Surfactant	1.0	Jarchem
	Jarfactant 600UP RSPO MB	Alkyl Polyglucoside C10-C16	Surfactant	1.0	Jarchem
	Biopure GLDA	Tetrasodium Glutamate Diacetate	Chelating Agent	3.0	Jarchem
	Citric Acid	Citric Acid	Acidic builder	4.0	
pH range:		3.0-4.0			

PROCEDURE:

1. Add all ingredients in a vessel and mix for 30 minutes until homogenous.

NOTE:

No heat is required for this formulation.

Efficacy Test

Soak test

1. Made bathroom buildup with 5g charcoal soap and 300ppm Calcium carbonate, qs by water to 100g on watch glass
2. Dried in oven for 1 day
3. Removed the large lump formed on watch glass and only leave the buildup that is hard to remove (Figure 1A)
4. Socked part of the watch glass (under yellow line) in the shower and bathroom cleaner for 30 minutes (Figure 1B)
5. The buildup was easily wiped down using napkin or towel in the soaked area (under yellow line) and leave a clean and non-sticky surface (Figure 1C)



Figure 1A



Figure 1B



Figure 1c

Spray test

1. Made bathroom buildup with 1g soap and 300ppm Calcium carbonate, qs by water to 50g on watch glass
2. Dried in oven for 1 day and leave a waxy soup surface (Figure 2A)
3. Sprayed right side of the watch glass and leave it for 15 minutes, then clean it with paper towel (Figure 2B)



Figure 2A



Figure 2B

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