

Starting point formulation – Highly acidic toilet-cleaner with pH of 0.5 utilized RHEOBYK-7420 ES/CA/ET *

Sprayable, rinse off bathroom cleaner utilizing RHEOBYK-7420 ES/CA/ET * to provide surface cling for a strong acid solution

Formulation

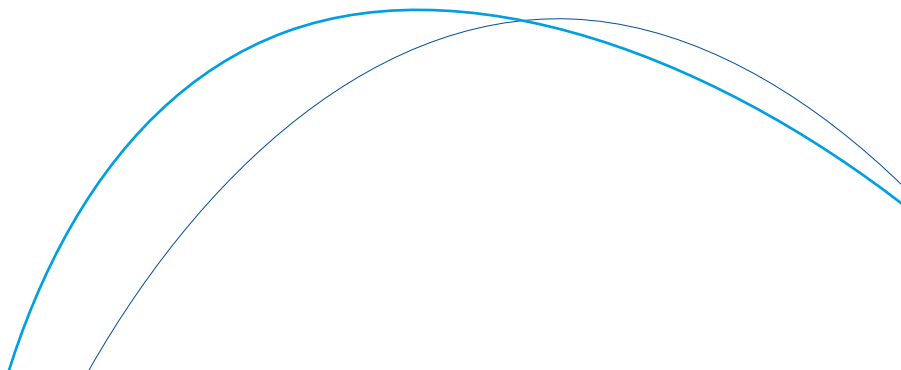
Position	Component	Supplier	Function	Weight (g)
1	Demineralized water		Solvent	80.00
2	Amido sulfonic acid		Acid	7.00
3	RHEOBYK-7420 ES/CA/ET * (52 %)	BYK	Rheology additive	3.00
4	Berol 260 ¹⁾	Julius Hoesch	Non-ionic surfactant	2.50
5	Methane sulfonic acid (70 %)		Acid	4.00
6	Phosphoric acid (75 %)		Acid	1.50
7	Na-Cumolsulfonate		Surfactant	2.00
Total				100.00

* solvent carrier can depend on the system. Recommended to test.

Instructions

- Mix water with the amino sulfonic acid and stir for 10 minutes at 2,000–2,500 rpm until the dispersion is dissolved.
- Add the RHEOBYK-7420 ES/CA/ET * and stir 5 min at 1,800–2,200 rpm.
- Incorporate the nonionic surfactant while stirring at 1,800–2,200 rpm.
- Slowly add the acids into the batch under stirring and continue for 10 min at 1,800–2,200 rpm.
- In the end add the Na-Cumolsulfonate and stir for 5 min at 1,400–1,600 rpm.

¹⁾ Berol 260 is a narrow distribution range nonyl-undecanol (C9-C11) 4 EO 100 %



Characteristic data /specification

Data	Unit	Value
pH value		0.50
Viscosity byko-visc Advanced EX L Spindle L 3 at 10 rpm	mPa-s	1,900–2,000
Viscosity byko-visc Advanced EX L Spindle L 3 at 100 rpm	mPa-s	500–550
Rheology additive content	%	1.20
Solids	%	170

Further information / application

- The formulation is designed to be used as it is.
- Spray the acid cleaner undiluted on bathroom surfaces, then rinse with water after 5 min.

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This issue replaces all previous versions.

