



Eco-Friendly

ACRYLIC EMULSION

Non-Toxic

SINOGRACE

The Chemical Company

SA-400 Reference formula and test results

SA-400 is a polymer-based polymer emulsion that is excellent in compatibility with cement and is designed to improve the flexibility of cement. In the mortar and concrete can form a continuous mesh mold, improve the mortar and concrete adhesion, compactness, tough flexibility, corrosion resistance, impact resistance, wear resistance, with excellent high temperature, alkali resistance. SA-400 has excellent tensile strength and elongation at break, in the preparation of JS two-component cement-based waterproof material, can tolerate more powder, the preparation of the waterproof coating can be better than the requirements of waterproof standards.

Reference Formula

I Type	Liquid material:Power material = 500: 500				
Liquid ratio			Power ratio		
Material	Size	Dosage	Material	Size	Dosage
SA-400	50±1%	497.0	Cement	P.O42.5	200.0
Defoaming agent	Industry	2.0	Quartz calcium	200mesh	200.0
Antiseptic	Industry	1.0	coarse whitening	400mesh	100
Total		500	Total		500
Notice	This formula is our raw materials according to the laboratory experiment, the results from these because each manufacturer of the raw material is different, different test conditions, test in before use, please, adjust the formula, to adjust the test in water according to actual situation.This recipe is for reference only, despite starting formula are accurate, we are not responsible for this.				

No.	Test item	Technical Data	Test result	Individual assessment
1	Appearance	Liquid components should be no impurities, no gel uniform emulsion, solid components should be no impurities, no agglomeration of the	Liquid components should be no impurities, no gel uniform emulsion, solid components should be no	Qualified

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		powder.	impurities, no agglomeration of the powder.		
2	Solid content /%≥	70	76	Qualified	
3	The tensile strength	No treatment /MPa≥	1.2	2.1	Qualified
		After the heat treatment guarantee rate /%≥	80	125	Qualified
		Alkali treatment after the guarantee rate/%≥	60	100	Qualified
		Assurance after soaking treatment /%≥	60	110	Qualified
4	Elongation at break	No treatment /%≥	200	410	Qualified
		After the heat treatment guarantee rate /%≥	150	346	Qualified
		Alkali treatment after the guarantee rate /%≥	150	260	Qualified
		Assurance after soaking treatment /%≥	150	356	Qualified
5	Bond strength	No treatment /MPa≥	0.5	1.2	Qualified
		Wet base /MPa≥	0.5	1.0	Qualified
		Alkali treatment /MPa≥	0.5	1.1	Qualified
		Soaking in water /MPa≥	0.5	1.0	Qualified
6	Low temperature flexible (Φ10mm)	-10℃	No crack	Qualified	
7	Water tightness (0.3MPa,30min)	waterproof	waterproof	Qualified	

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