

Black Water-based Acrylic Nail Polish

Formulation F76-79

This pigmented water-based acrylic nail polish provides quick drying time, excellent wear and water resistance and also high gloss.

NAME	SUPPLIER	INCI NAME	% WEIGHT
Phase A			
SYNTRAN® 5620CG	Interpolymer	Styrene/Acrylates/Ammonium Methacrylate Copolymer	80.25
Phase B			
Finsolv® PG-22	Innospec Performance Chemicals	Dipropylene Glycol Dibenzoate	2.70
Dowanol™ PnB	Dow Chemical	Propylene Glycol n-Butyl Ether	4.95
SYNTRAN® KL 219CG	Interpolymer	Ammonium Acrylates Copolymer	1.35
Phase C			
Laponite® XLS (12.5% Aqueous Solution)	BYK	Sodium Magnesium Silicate	2.50
Phase D			
SYNTRAN® Black A	Interpolymer	CI 77266	8.25
YIELD:			100.00

Procedure

Add SYNTRAN® 5620CG to a covered batch tank. In a separate vessel, premix phase B with appropriate agitation. Slowly add phase B to phase A with constant agitation. Stir for 30 minutes and avoid aeration. Separately prepare a 12.5% wt/wt aqueous solution of Laponite® XLS. Stir until it is clear and fully hydrated (at least hydrate for 1 hour). Add phase C to the batch. With constant agitation carefully add phase D ingredient Stir until batch is uniform.

Properties

Appearance: Black liquid

Viscosity: Brookfield DVE, Spindle # 2, 50 rpm, 200-300 cps