

Product →	SF26 – Solvent Free Polyurethane Dispersion
Description →	SF26 is solvent free translucent aliphatic water borne urethane resin. SF 26 provides performance without NMP addition and is a ultra low VOC product with superior hardness, chemical and abrasion resistance. SF26 allows formulators to develop high performance coatings and adhesives in compliance with VOC regulations.
Application →	<ul style="list-style-type: none"> ✓ Wood Coatings ✓ Concrete Coatings ✓ Metal Coatings ✓ Base polymer for paint formulations
QC Data →	<ul style="list-style-type: none"> ✓ Viscosity 20 – 500 cps ✓ Solids 35 – 38% ✓ pH 7 – 8.5

Recommended Starting Formulations

STARTING POINT FORMULATION	
Ingredient	%Weight
SF26	91.74
Triglyme	4.59
BYK 345	0.23
Tego 825	0.23
KP-140	2.29
Esi-Cryl 325N35	0.92
Total	100.00
PROCEDURE	
<ol style="list-style-type: none"> 1. Add Ingredients 1 and 2 under agitation. 2. VERY SLOWLY charge item 3 and mix for 15 minutes. 3. Add ingredients 4, 5 & 6 slowly in order and mix for 30 minutes. 4. Evaluate film quality to confirm results. 	

DISCLAIMER

Formulas are provided as guidance to the customer. Henkel Corporation does not guarantee the performance of end use applications. We recommend that Henkel customers fully test starting formulas for manufacturing suitability, performance properties, and specific end use applications. Henkel will not be held liable for any defects in the manufacture or use of these formulas.

QC DATA

PROPERTIES	STARTING POINT FORMULATION
Viscosity (cps)	20-500 CPS
Solids %	34 +/- 1.5
Weight/Gallon	8.64
pH	7.0 - 8.5

PHYSICAL PROPERTIES

PROPERTIES	RESULTS
Viscosity (#18/30 rpm)	41.3 cps
Tensile (psi)	2721 psi
Elongation (%)	60.2%
Gloss on Leneta Chart @ 60°	81.2
Leneta Film Quality	Good
Crosslinker	QZ43 (Aziridine 50%)
Crosslinker Level - pph	3.5
MEK Double Rubs (6 mil/7 day RT cure on leneta card)	200+
Water Resistance after 18 hrs*	1
IPA / Water Resistance after 18 hrs*	0
VOC	< 150 g/l
4 week Heat Stability w/o cross-linker	PASS
Freeze/ Thaw (3 cycles) w/o cross-linker	PASS
CHEMICAL RESISTANCE KEY	
No effect	0
Severe effect	5

* Performed on glass plate using a 6 mil draw down bar.

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