



PRODUCT INFORMATION

PRODUCT

Concentrate Wood Floor Coating – QWF4800

DESCRIPTION

QWF4800 is water based polyurethane dispersion concentrate for the production of coatings with VOC less than 275 g/liter.

APPLICATION

This high solids aliphatic concentrate was designed to provide excellent wear and abrasion resistance for high traffic wood floors over a range of solids. It also provides high gloss with superior chemical resistance. This formulated PUD can either be used with the environmentally friendly carbodiimide crosslinker for longer pot life or the traditional Aziridene based cross linker. Dilution solids run 25% to 30% solids.

PROPERTIES VALUES				
PROPERTIES	BRAND A	BRAND B	QWF4800	QWF4800
Solids	30%	34%	35%	35%
Cross linker	Azirdine	Isocyanate	QZ43	Carbodiimide QZ02
Cross linker level (%)	2	10	2	5
VOC (g/liter)	400	180	250	248
Sward Hardness (18 hr. dry)	25.5	20	36	26
Sward Hardness (7days dry)	36.5	36	59	52
18hr. dry 50% IPA resistance*	2	0-1	1-2	1-2
18 hr. dry water resistance*	2	0-1	1-2	1-2
Finger Nail Test	No effect	No effect	No effect	No effect
Foaming Test	Fair	Good	Good	Good
Tensile	3825	5550	5770	5225
Elongation	106%	174%	102%	106%
Taber Abrasion(mg weight loss)	FAIL	7.9	8.8	9.1
Freeze/Thaw	PASS	PASS	PASS	PASS
Oven Stability	PASS	PASS	PASS	PASS

*Ratings chemical resistance key. 0 no effect - 5 Severe

Third party tests confirm QWF4800 is slip resistant with a coefficient of friction greater than 0.5, and passes the black heel test, and develops properties in the first 18 hours under normal curing conditions.

APPLICATION

SURFACE PREPARATION:

- New wood or old finish should be sanded and dust removed by vacuum and damp mop before sealer or top coat is applied.

SEALER COAT:

- New wood should be sealed sufficiently with an appropriate sealer of water based acrylic or solvent based polyurethane at 25% solids to provide a base for QWF4800 and to avoid penetration.
- Seal coats on new wood should be sanded, damp mopped, and vacuumed to remove raised grain and dust.
- Recoating gym floors requires sanding, damp mopping, vacuuming and running a test path to insure a proper coating match.
- Coating adhesion on game lines, logos etc should be tested on a small test patch.
- If paint is applied for game lines or logos etc., after complete drying, light conditioning with a pad is required and thorough tack and vacuuming is required before coating with QWF4800.
- Paints containing vinyls and polyvinyl are not recommended.

TOPCOAT

- QWF4800 coats, spreads, and levels satisfactorily at higher than normal solids and viscosity.
- We believe higher viscosity may reduce side-bonding and recommend a first topcoat not be diluted below 25% solids (see solids-viscosity chart below).
- 2 or 3 top coats of QWF4800 are generally sufficient for good appearance and long term wear.
- Each coat should be allowed to dry clear and tack-free before proceeding.
- Re-coating without sanding can be done up to 4 hours after applying a coat; however, sanding between coats provides the best film appearance.



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SOLIDS-VIACOSITY CHART

- QWF4800 concentrate is provided at 35% solids and can be diluted to lower solids / viscosity using the chart below.

QWF4800 (pph)	WATER (pph)	SOLIDS (%)	VISCOSITY (cps)
100	0	35.0	200-300
100	17	30.0	70-120
100	23	28.0	30-70
100	36	25.0	20-40

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02/15