

## WaterSlip 41

WaterSlip-41 is a hydrophobic additive for solvent-based paints. When WaterSlip-41 is added to solvent based paint, contact angle to water will increase with increasing amounts added. WaterSlip-41 usage is recommended at 10% to 50% weight of the paint. Water contact angles up to 150 degrees can be achieved with WaterSlip (<http://www.cytonix.com/liquiSlip-p/waterslip-41p.htm>).

### Instructions:

Prepare the epoxy or polyurethane paint by mixing resin and catalyst as recommended by the original paint manufacturer. To 20 grams of paint, add 10 grams of WaterSlip-41P. Mix the ingredients and spray the devices using the same setting as that for the original paint. If the mix is too thick, add a little MEK to thin the mix. After drying for 48 hours, the expected water contact angle is >140° and hardness / scratch-resistance is approximately 4H pencil hard.

For application directions and drying time, please refer to the directions provided by the manufacturer of the solvent based paint.

The table below are examples of performance using **Nuplex Setalux-1192** as the model paint.

	Paint only	IceSlip-83 water contact angle	WaterSlip-41 water contact angle
<b>Before</b> abrasion	< 90°	100°	144°
<b>After</b> abrasion: 500- gram load, 5 cm, CS - 10 rubber, <b>50 cycles</b>	< 90°	95°	152°
<b>After</b> abrasion: 500-gram load, 5 cm, CS - 10 rubber, <b>200 cycles</b>	< 90°	98°	147°
<b>After</b> abrasion: 500-gram load, 5 cm, CS - 10 rubber, <b>500 cycles</b>	< 90°	94°	95°
		-- Nuplex-Setalux1192 and hardner Desmodu N3390  -- +5% WaterSlip-83 in PU Coating  -- Cured at 70°C /240mins	-- Nuplex-Setalux1192 and hardner Desmodu N3390  -- waterSlip-41:PU Coating ratio= 50:50  -- Cured at 70°C /240mins

Please compare your paint with and without WaterSlip using water contact angles and slip properties. For optimal water shedding, please add as much Cytonix additives as possible without compromising the hardness of the original paint.

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