

An abstract graphic on the left side of the slide. It features a globe-like shape composed of a dense grid of small dots. Overlaid on this grid are several thin, curved black lines that intersect at various points, creating a network or orbital pattern. The lines and dots are black, contrasting with the yellow background.

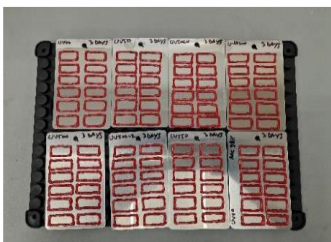
HumiSeal[®]

Chemical Resistance Test
Solvent-Based Coatings

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Chemical resistance is correlated with the type of chemistry and hardness of the material. Hard coatings generally have a tougher surface and can exhibit improved chemical resistance but are unable to withstand long thermal shock cycles.

For the chemical resistance test, conformal coatings were applied on Steel coupons at 30-60µm thickness and cured as per the TDS. Temporary masking applied at 1 mm height dam to separate the chemicals.



Chemicals were poured inside the dam and evaluate the chemical resistance after 1, 3 and 7 days.

Chemical	Solvent-Based Coatings																	
	1B31			1B73			1R32A-2			1A33			1B51NSLU			1B59NSLU		
Test duration (days)	1	3	7	1	3	7	1	3	7	1	3	7	1	3	7	1	3	7
Bleach	Yellow	Orange	Orange	Yellow	Yellow	Yellow	Orange	Red	Red	Orange	Red	Red	Green	Green	Yellow	Yellow	Yellow	Yellow
Bio detergent	Green	Red	Orange	Green	Green	Green	Green	Orange	Red	Green	Green	Green	Yellow	Orange	Red	Yellow	Yellow	Orange
Automatic transmission fluid	Green	Orange	Orange	Green	Green	Yellow	Green	Green	Orange	Green	Green	Green	Orange	Orange	Red	Yellow	Orange	Orange
Gear oil	Green	Green	Orange	Green	Green	Green	Green	Green	Yellow	Green	Green	Green	Orange	Orange	Orange	Yellow	Orange	Orange
Engine oil	Green	Orange	Orange	Green	Green	Yellow	Green	Yellow	Yellow	Green	Green	Green	Orange	Orange	Orange	Yellow	Orange	Orange
Brake fluid	Green	Green	Orange	Orange	Orange	Orange	Green	Orange	Orange	Orange	Orange	Orange	Green	Green	Orange	Yellow	Yellow	Red
Diesel	Orange	Orange	Red	Green	Yellow	Yellow	Orange	Orange	Orange	Green	Yellow	Yellow	Red	Red	Red	Red	Red	Red
Energy drink	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Green	Green	Green	Yellow	Yellow	Green	Yellow	Yellow
Hydrochloric acid	Yellow	Yellow	C	Yellow	Yellow	C	Yellow	Yellow	C	Yellow	C	C	Yellow	Yellow	C	Yellow	Yellow	C
Sulfuric acid 40%	Green	Orange	Orange	Green	Yellow	Yellow	Green	Green	Orange	Green	Green	Green	Green	Yellow	Yellow	Green	Green	Yellow
Sodium Hydroxide	Yellow	Orange	Orange	Yellow	Yellow	Yellow	Green	Green	Orange	Green	Green	Green	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

Legend



No physical effect



Stained but no effect on coating



Softened the coating / easy to scratch



Stripped the coating



Corroded under coating



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