

Formulación Satin Gray Garage Floor Paint
Resina MQ Synthapox H 1040
Fecha 15/5/2024
Volumen 100 Gal

#	Raw Material	Quantity (pounds)	Density (pounds/gal)	Volume (Gal)	% W/W
1	Water	200.00	8.34	23.98	19.89%
2	Natrosol 250 H4BR PA	1.25	11.36	0.11	0.12%
3	Attagel 40	3.50	19.44	0.18	0.35%
4	Use cowles at medium speed, add in order.				
5	Ammonia (26%)	2.00	7.51	0.27	0.20%
6	Afcona 4530	7.00	8.85	0.79	0.70%
7	Disafoam 750	2.00	7.30	0.27	0.20%
8	Huntsman TR 92	75.00	34.21	2.19	7.46%
9	Min-U-Sil 15	110.00	22.11	4.97	10.94%
10	Cimbar XF	20.00	36.72	0.54	1.99%
11	Add each raw material in order listed. Mix at high speed for 15 minutes.				
12	Water	16.75	8.34	2.01	1.67%
13	Adjust grind viscosity with water; disperse to fineness 5H.				
14	Synthapox H 1040	478.00	8.88	53.83	47.54%
15	Water	30.50	8.34	3.66	3.03%
16	Disafoam 750	1.00	7.30	0.14	0.10%
17	Mirecide MIT/90	1.50	9.18	0.16	0.15%
18	Letdown with mix blade; add in order, use water to rinse mill.				
19	Water	13.50	8.34	1.62	1.34%
20	Nexcoat 795	13.50	7.90	1.71	1.34%
21	Premix both raw materials, then add to vortex under medium agitation.				
22	Optifilm 400	20.00	8.07	2.48	1.99%
23	Add and mix for 10 minutes under medium agitation.				
24	Afcona 3580	2.00	9.26	0.22	0.20%
25	Water	2.50	8.34	0.30	0.25%
26	Rheobyk H 600 VF	2.50	8.62	0.29	0.25%
27	Premix water and Rheobyk to adjust viscosity; add slowly to vortex.				
28	Black GR 532	2.00	9.43	0.21	0.20%
29	Oxide Yellow R 532	1.00	15.61	0.06	0.10%
30	Add until bring to gray standard.				
TOTAL		1005.50		100.00	100.00%

PVC	26.13%
CPVC	54.96%
Factor PVC/CPVC	0.48

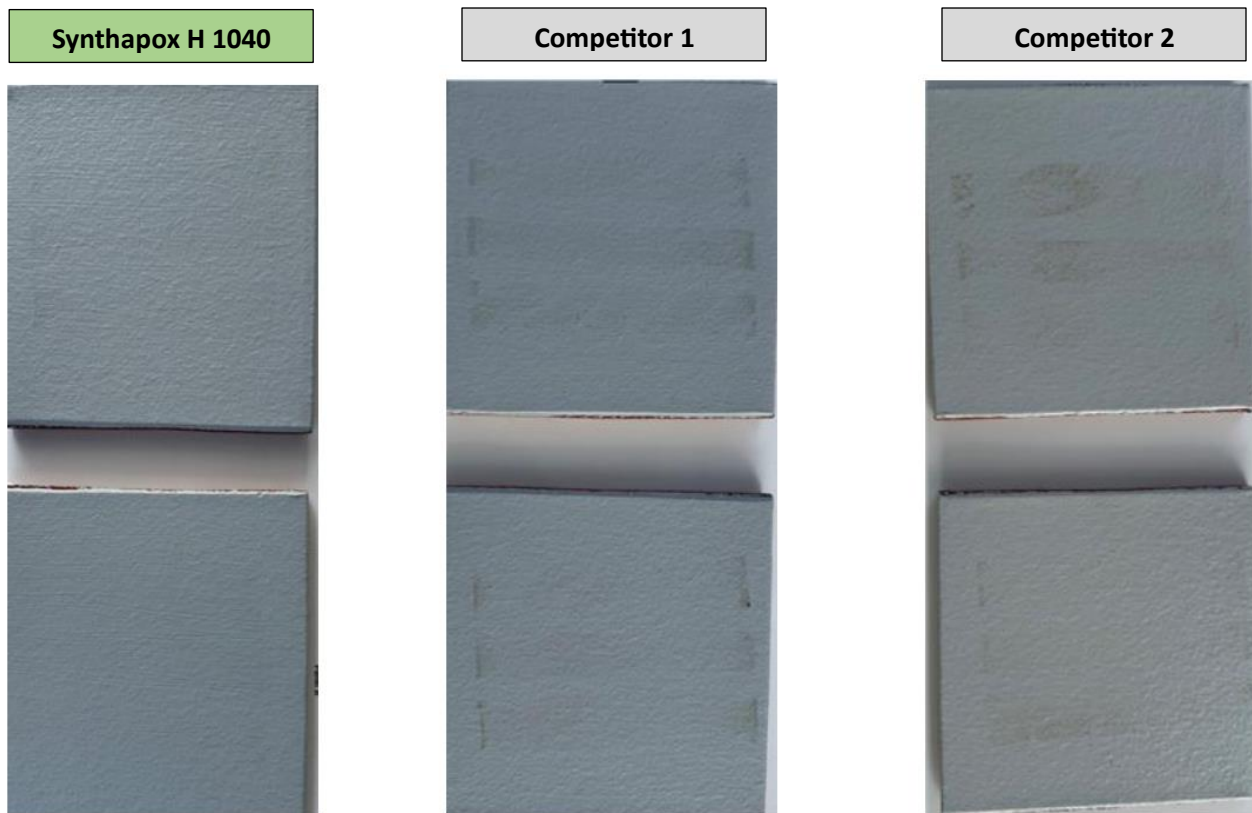
Theoretical Properties	
Density (pounds/gal)	10.05
% Solids by Weight	43.26%
% Solids by Volume	31.46%
VOC (US) g/L	51.27
Theoretical Yield (m2/gal @ 1 mils)	46.88

Synthapox H 1040 Acrylic-Epoxy hybrid technology is designed to impart epoxy performance in a 1-part system. Obvious improvements in film performance include hot-tire pickup (adhesion and mar resistance), in combination with resistance to chemicals typically found in a garage environment. In formulation tests versus other competitors products 1-part coatings, Synthacril H 1040 exhibits top-rated hot-tire pickup results and chemicals softening and spot resistance.

HOT TIRE PICK UP RESISTANCE

Product	Spread Rate (SqFt/g)	# Coats	Delamination Results (Average of 2 Panels)	Imprint/Marking Results (Average of 2 Panels)
<i>Synthacril H 1040 Garage Floor Paint</i>	400	2	5	5
<i>Competitor 1</i>	400	2	5	3
<i>Competitor 2</i>	400	2	5	2

**Rating: 5 – None, 4 – Very slight, 3 – Moderate, 2 – Considerable, 1 – Severe, 0 – Complete failure*



*Tested by Independent lab.

CHEMICAL RESISTANCE

	<i>Synthapox H 1040</i>	<i>Competitor 1</i>	<i>Competitor 2</i>	<i>Competitor 3</i>
<i>Gasoline</i>	Slight spot	Soften / recovers; slight spot	Slight spot	Soften / recovers; spot
<i>Diesel</i>	No effect	No effect	No effect	Slight soften / recovers
<i>Brake Fluid</i>	Slight soften / recovers	Soften – no recovery	Soften – no recovery	Soften – no recovery
<i>Power Steering</i>	No effect	No effect	No effect	No effect
<i>Motor Oil</i>	No effect	No effect	No effect	No effect
<i>Transmission Fluid</i>	No effect	No effect	No effect	No effect
<i>Glass Cleaner</i>	Slight spot	Slight soft / recovers; slight spot	Slight spot	Soften / recovers; spot
<i>Water</i>	No effect	No effect	Slight spot	Soften / recovers; spot
<i>Anti-Freeze</i>	No effect	No effect	Slight spot	Soften / recovers

*DFT: 1.3 – 1.6 mils