

# WEATHER & DEW POINT PRECAUTIONS FOR ALL SEASON® & USP® COATINGS

USP® Coatings and flashing materials require complete evaporation of solvent or water to cure. Lower temperatures and higher humidity prolong drying time. Allow for sufficient daylight hours necessary for curing of materials. CAUTION: Other weather and environmental conditions to consider are mist, dew, condensation and relative humidity. These factors can lengthen USP® Coating System drying times. If various USP® Coating products are exposed to rain or moisture before they are completely dry, the product may “wash-off” the roof or release from the substrate. Extreme caution should be used especially during the months of October – February as the temperatures can fall to within 5°F of the dew point within 6 hours of application which can cause the product to release from the substrate.

**DEW POINT TABLE:**

RELATIVE HUMIDITY	AMBIENT AIR TEMPERATURE - FAHRENHEIT										
	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°
90%	18	28	37	47	57	67	77	87	97	107	117
85%	17	26	36	45	55	65	75	84	95	104	113
80%	16	25	34	44	54	63	73	82	93	102	110
75%	15	24	33	42	52	62	71	80	91	100	108
70%	13	22	31	40	50	60	68	78	88	96	105
65%	12	20	29	38	47	57	66	76	85	93	103
60%	11	19	27	36	45	55	64	73	83	92	101
55%	9	17	25	34	43	53	61	70	80	89	98
50%	6	15	23	31	40	50	59	67	77	86	94
45%	4	13	21	29	37	47	56	64	73	72	91
40%	1	11	18	26	35	43	52	61	69	78	87
35%	-2	8	16	23	31	40	48	57	65	74	83
30%	-6	4	13	20	28	36	44	52	61	69	77
<b>SURFACE TEMPERATURE AT WHICH CONDENSATION OCCURS</b>											

**CONDENSE/CONDENSATION:** To change from gas to liquid: to lose heat and change from a vapor into a liquid, or make a vapor change to a liquid.

**DEW POINT:** The temperature at which moisture in air will condense on surface. No coatings should be applied unless ambient and surface temperature is a minimum of 5° above this point. The temperature must remain at least 5 degrees above the dew point throughout the dry time of the coating.

**EXAMPLE:** If air temperature is 60°F and relative humidity is 70% the dew point is 50°F. The moisture in the air will condense and form water droplets on the surface if it reaches a surface temperature of 50°F.

**ADDITIONAL TEMPERATURE RESTRICTIONS:** No coating should be applied unless surface temperature is 40° minimum and 125° F maximum. Certain All Season® and USP® Coatings may have different requirements for high and low temperature application.

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