



PROPER DEW POINT FOR LIQUID RUBBER COATINGS IN CELCIUS

Dew point is defined as the atmospheric temperature which water droplets begin to condense and dew can form on a surface. When you put a cold glass in a humid room, condensation forms on the glass. This is because the glass has a temperature below the dew point of the room. The same goes for any surface that you wish to apply a coating to. If the surface you wish to coat is at a lower temperature than dew point of the environment, condensation (or dew) will form on the surface, creating all sorts of issues with your coating, such as compromised or poor bond strength and possible finish issues, such as fisheyes, blisters, and color inconsistencies. Below is a table showing the relationship between Temperature, Humidity, and Dew Point. Any surface to be coated should be at least 5 degrees above the Dew Point.

% of Relative Humidity

		100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10
<i>Air Temp. In °C</i>	43	43	42	41	40	39	38	37	35	34	32	31	29	27	24	22	18	16	11	5
	41	41	39	38	37	36	35	34	33	32	29	28	27	24	22	19	17	13	8	3
	38	38	37	36	35	34	33	32	30	29	27	26	24	22	19	17	14	11	7	0
	35	35	34	33	32	31	30	29	27	26	24	23	21	19	17	15	12	9	4	0
	32	32	31	31	29	28	27	26	24	23	22	20	18	17	15	12	9	6	2	0
	29	29	28	27	27	26	24	23	22	21	19	18	16	14	12	10	7	3	0	-
	27	27	26	25	24	23	22	21	19	18	17	15	13	12	10	7	4	2	0	-
	24	24	23	22	21	20	19	18	17	16	14	13	11	9	7	5	2	0	-	-
	21	21	20	19	18	17	16	15	14	13	12	10	8	7	4	3	0	-	-	-
	18	18	17	17	16	15	14	13	12	10	9	7	6	4	2	0	-	-	-	-
	16	16	14	14	13	12	11	10	9	7	6	5	3	2	0	-	-	-	-	-
	13	13	12	11	10	9	8	7	6	4	3	2	1	0	-	-	-	-	-	-
	10	10	9	8	7	7	6	4	3	2	1	0	-	-	-	-	-	-	-	-
	7	7	6	6	4	4	3	2	1	0	-	-	-	-	-	-	-	-	-	-
	4	4	4	3	2	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-



Example

The weatherman says the Air Temperature is 21°C today and the Relative Humidity is 50 %. That would make the Dew Point 10°C and therefore the surface to be coated should be at least 15°C.

The effect that Dew Point can have on a coating, is much more important for outdoor applications, as environmental conditions can change more frequently. Monitoring conditions on a regular basis can help prevent these issues.

There are many dew point meters on the market and choosing the right one in your price range is up to you. Or if you use the above table, all you need is an instrument that measures humidity and temperature. Remember to make sure whatever you're coating is at least 5 degrees above the dew point of the environment you are coating in.

For questions or concerns contact **Liquid Rubber Technical Support**.