# DEW POINT CALCULATION CHART

## For Adhesive and Coating Applications

### Ambient Air Temperature in Degrees Fahrenheit

| %Relative Humidity | 40°F | 45°F | 50°F | 55°F | 60°F | 65°F | 70°F | 75°F | 80°F | 85°F | 90°F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90% | 37 | 42 | 46 | 52 | 57 | 62 | 67 | 72 | 77 | 81 | 87 |
| 85% | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 84 |
| 80% | 34 | 39 | 44 | 49 | 54 | 59 | 63 | 68 | 73 | 78 | 82 |
| 75% | 32 | 37 | 42 | 47 | 52 | 57 | 62 | 66 | 71 | 76 | 80 |
| 70% | 31 | 35 | 40 | 45 | 50 | 55 | 60 | 64 | 68 | 74 | 78 |
| 65% | 30 | 33 | 38 | 43 | 47 | 53 | 57 | 62 | 66 | 72 | 76 |
| 60% | 27 | 32 | 36 | 40 | 45 | 50 | 55 | 60 | 64 | 69 | 73 |
| 55% | 26 | 30 | 34 | 38 | 43 | 48 | 53 | 58 | 61 | 67 | 70 |
| 50% | | 28 | 32 | 36 | 40 | 45 | 50 | 55 | 59 | 64 | 67 |
| 45% | | 26 | 30 | 33 | 37 | 42 | 47 | 52 | 56 | 61 | 64 |
| 40% | | 21 | 27 | 32 | 35 | 40 | 43 | 49 | 52 | 58 | 61 |
| 35% | | | 24 | 28 | 31 | 36 | 40 | 45 | 48 | 54 | 57 |
| 30% | | | | 25 | 28 | 32 | 36 | 41 | 44 | 50 | 52 |

DEW POINT = SURFACE TEMPERATURE AT WHICH CONDENSATION OCCURS

DEFINITION: The Dew Point is the temperature at which moisture will condense on surfaces at a given Air Temperature and % Relative Humidity. As it relates to interior moisture condensation, the Dew Point is an important factor for ensuring that proper conditions exist before and during substrate testing, preparations, and floor covering installations. The interior air temperature and Relative Humidity must be maintained between 65-95°F and 45-65%RH, and the substrate temperature should be at least 5 degrees F. higher than the Dew Point. Monitoring the substrate temperature, indoor temperature and RH, and utilizing fans and/or dehumidifiers as needed will help correct or prevent existing or possible Dew Point conditions until the installation is complete.

HOW TO CALCULATE THE DEW POINT: Starting at the recorded %Relative Humidity reading in the left (green) column, scroll directly across to the correct cell under the Ambient Air Temperature (yellow) column. The number where these two values intersect is the Dew Point.

Example 1: If the Relative Humidity (RH) is 50% and the indoor air temperature is 80°F, the dew point would be 59°F. In this case, say the substrate temperature is 58°F. Since the substrate temperature is 1° below the dew point, the installation should not begin unless adjustments are made to the air temperature or RH.

Example 2: If the Relative Humidity (RH) is 40% and the indoor air temperature is 75°F, the dew point would be 49°F. In this case, say the substrate temperature is 55°F. Since the substrate temperature is 6° above the dew point, adjustments to the air temperature or RH are not needed.

This guide does not purport to cover all situations that may be encountered in a field environment. Please contact us for any additional information if a question should arise.

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198 Nexus Drive | Dalton, GA 30721
tel: 800.367.4583 | fax: 706.272.5801
WWW.XLBRANDS.COM