Consumer Solutions

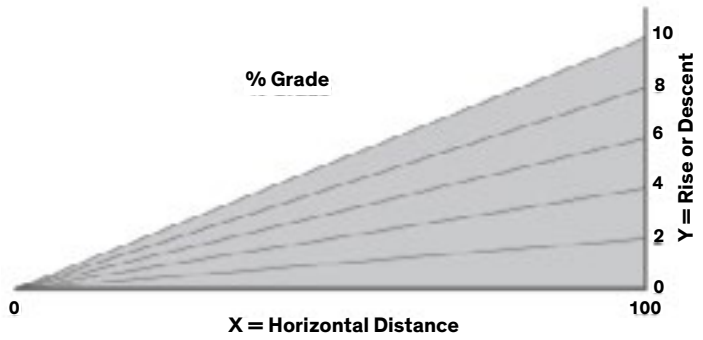
Use of DOWSIL™ Self-Leveling Silicone Pavement Sealant on Sloping Pavement Surfaces

DOWSIL™ 890-SL Silicone Joint Sealant can be used on sloping pavement surfaces depending upon the grade in which the sealant is installed. DOWSIL™ 890-SL Silicone Joint Sealant can be installed using normal recommended installation practices on standard highway grades from 0 to 5 percent.

Figure 1 illustrates the difference between percent grade and degree of grade, and **Table 1** calculates and compares one to the other.

Grades greater than those previously recommended can and have been installed successfully with DOWSIL™ 890-SL Silicone Joint Sealant on a limited basis. However, it is important to know what grades you are dealing with. If your installation exceeds the above recommendations, please seek Dow technical assistance.

Figure 1



X and Y are measured using the same unit of measure.

Y is the rise or descent measured vertically, generally after a distance of 100 units along X (horizontal).

Example: If Y = 6 and X = 100, then % Grade = 6/100 (100) = 6%
If Y = 3 and X = 50, then % Grade = 3/50 (100) = 6%
% Grade = Y/X(100)

Points to remember:

- The term for "slope" when referring to highways is "grade."
- Grade is defined as the amount of rise or descent of a sloping surface and is expressed as "percent grade."
- Percent grade when referring to highway slope is the ration of rise/descent (vertical lift/fall) to the base (horizontal distance).
- "Degree of grade" refers to the angle between the horizontal line and the slope line.
- Both percent grade and degree of grade are often used to describe the rise or descent of a highway pavement. However, it must be understood that a 5 percent grade is not the same as a 5 degree grade. They are separate measures; percent of ratio versus actual angle formed between the slope and horizontal surface.

Table 1 – Referring to Figure 1

Units		% Grade	Degree of Slope or Grade
X	Y		
100	1	1	0.57°
100	2	2	1.15°
100	3	3	1.72°
100	4	4	2.29°
100	5	5	2.86°
100	6	6	3.43°
100	7	7	4.00°
100	8	8	4.57°
100	9	9	5.14°
100	10	10	5.71°

The "Degree of Slope or Grade" for the above example is:
Angle (α) = Arc Tan 6/100
(α) = 3.43°



Learn More

For more information about how DOWSIL™ silicone solutions can help meet your high performance building needs, visit **consumer.dow.com/construction**.

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