

RELATION BETWEEN TEMPERATURE OF AIR , RELATIVE AIR HUMIDITY AND THE IRRIGATION TEMPERATURE

Dear Customers of paints for road marking application,
Orgachim JSC would like to inform you, that for obtaining maximal operational qualities of road marking applied it is of great importance to take under consideration the factor of **"Road surface irrigation temperature"**.
In cases that the road surface temperature is not higher than this value the moisture on surface formed will hamper good adhesion between the paint and surface. This will lead to deterioration of operational qualities of the applied road marking

For your easy reference we apply below Table for determination of irrigation temperature at corresponding surface temperature and relative humidity.

Example :

At air temperature 18 °C and relative humidity 75%, the point of irrigation is 13,5 °C.
Therefore at surface temperature lower than 13,5 °C it is **not recommended to apply road marking**

DETERMINATION OF IRRIGATION TEMPERATURE

Air temperature in °C	Relative humidity, %								
	50	55	60	65	70	75	80	85	90
5									
6									
7									
8									5,5
9								5,6	6,5
10						5,7	6,7	7,6	8,4
11					5,6	6,7	7,6	8,6	9,4
12*				5,6	6,6	7,7	8,6	9,6	10,4
13*			5,4	6,6	7,6	8,6	9,6	10,6	11,4
14*		5,1	6,4	7,5	8,6	9,6	10,6	11,5	12,4
15*		6,1	7,3	8,5	9,5	10,6	11,5	12,5	13,4
16*	5,6	7,0	8,3	9,5	10,5	11,6	12,5	13,5	14,4
17*	6,5	7,9	9,2	10,4	11,5	12,5	13,5	14,5	15,3
18	7,4	8,8	10,2	11,4	12,4	13,5	14,5	15,4	16,3
19	8,3	9,7	11,1	12,3	13,4	14,5	15,5	16,4	17,3
20	9,3	10,7	12,0	13,3	14,4	15,4	16,4	17,4	18,3
21	10,2	11,6	13,0	14,2	15,3	16,4	17,4	18,4	19,3
22	11,1	12,5	13,8	15,2	16,3	17,4	18,4	19,4	20,3
23	12,0	13,5	14,8	16,1	17,2	18,4	19,4	20,3	21,3
24	12,9	14,4	15,7	17,0	18,2	19,3	20,3	21,3	22,3
25	13,8	15,3	16,7	17,9	19,1	20,3	21,3	22,3	23,2
26	14,8	16,2	17,6	18,8	20,1	21,2	22,3	23,3	24,2
27	15,7	17,2	18,6	19,8	21,1	22,2	23,2	24,3	25,2
28	16,6	18,1	19,5	20,8	22,0	23,2	24,2	25,2	26,2
29	17,5	19,1	20,5	21,7	22,9	24,1	25,2	26,2	27,2
30	18,4	20,0	21,4	22,7	23,9	25,1	26,2	27,2	28,2

→ Use of Winter or Summer variant of BAT thinner in those cases depends on season for road marking : In September- February it is recommended Winter BAT; In March -August is recommended Summer BAT

→ **Please assure that at the moment of application of paint for horizontal road marking the temperature of road surface is above stated in the a.m. table values. In case of application of road marking at temperatures lower that stated in the table, Orgachim JSC is not responsible for operational qualities of the applied road marking.