

Differences in Durability

There are different color pigments used to receive the final color according our color charts.

These pigments have different behaviour regarding the long-term UV-stability in different areas of the world, as the results mainly depend on the radiation energy.

This radiation energy is different in various world areas.

We are already optimizing these pigments for best results, but we cannot beat physics and nature.

For this reason we want to introduce our color choice proposal for your considerations.

Radiation Energy

The following numbers are average results of radiation energy per year:

	Area Section	KWH/m²/year	KLY/cm²/year	10⁷ J/m²/year
AS 1	Africa, Middle East, North Australia, Arizona, Nevada, Peru, Ecuador, Bolivia Mexico	>2200	>190	>800
AS 2	Australia, India, Thailand	1800-2200	155-190	800
AS 3	South China, Japan, South Europe, USA, Rest of South America,	1400-1800	120-155	500
AS 4	North China, Middle Europe, Canada	1100-1400	95-120	400-500
AS 5	North Europe, North Canada, Russia, Siberia	800-1100	70-95	290-400

Color Chart classes

The color chart classes indicated refer to our results of UV-stability tests of our NOCX pipe formulation.

We have not tested all available colors, but results can be assumed due to experience and know how in color stabilization.

The given RAL numbers refer to our colors shown in color chart RAL-K7 only.

Colorclass

CC 1	RAL 7000-7047, 9001-9018
CC 2	RAL 1000-2000, 5012, 5014-5019, 5023, 5024, 6000-6015,6020, 6021, 6025, 8000-8028, 1035, 1036, 7048, 9022, 9023
CC 3	RAL 3020, 5000-5011, 5013, 6016, 6017, 6019, 6033, 6034, 4011-8029
CC 4	RAL 2001-2012, 3000-4010, 5020-5022, 6018, 6022, 6026-6029, 3032, 3033, 2013
CC 5	RAL 1026, 2005, 2007, 3024, 3026 (Not producible)

Color Recommendation

The following color long-term durability evaluation refer to our NOCX pipe formulation test results, in accordance to the definition for a good pipe appearance without color changing or fading.

- Excellent = good for 60 years
- Good = good for 40 years
- Critical = good for 20 years

Color Recommendation Chart

Area Section	Color Long-term Durability		
	excellent	good	critical
AS 1	CC 1	CC 2	CC 3,4
AS 2	CC 1,2	CC 3	CC 4
AS 3	CC 1,2	CC 3,4	-
AS 4	CC 1,2,3	CC 4	-
AS 5	CC 1,2,3,4	-	-

CC 5 not producible.

We recommend to consider a color for our NOCX pipe in the range of “excellent”.