Appearance (Gloss Level)

Polished concrete appearance is indicated through three measurements, Distinctness of Image (DOI), Image Clarity Value, and Haze Index.
There are **four levels** of appearance recognized by the CPC (ASCC).

Appearance is measured by determing the DOI, image clarity, and haze of the finished surface. Both exposure and appearance, or gloss level, are both important to be specified for optimal results.

Distinctness of Image (DOI)	Haze	Compliance Measurement

Distinctness of Image Gloss

Distinctness of Image is the sharpness of images of objects by reflection at a polished surface.
· Measurement by Image Clarity Meter (ASTM D5767): The DOI, Image Clarity Value, obtained from testing has a range from 0-100 with 100 representing perfect DOI, or perfect image clarity.

Haze

Haze is the cloudiness of images produced by reflection in the polished surface.
· The Haze Index is obtained from measurement by a glossmeter, computed using the difference between the value of specular gloss at 60° and the value of specular gloss measured at 20°

Measurements for Compliance

Calibration of Image Clarity Meter & glossmeter are key to correct readings. (In accordance with ASTM D5767 & ASTM D4039.
· The minimum number of tests should be distributed across the surface, following the formula of 3 areas per 1000 ft² and an additional test for at least each additional 1000 ft². This applies to both Image Clarity Value & Haze Index.
· The mean (average) values of the test results should be used to evaluate compliance.

Source: Concrete Polishing Council/ American Society of Concrete Contractors

LEVEL	NAME	DISTINCTNESS OF IMAGE (DOI) GLOSS	IMAGE CLARITY VALUE, %	HAZE INDEX
1	**Flat** (Ground)	Images of objects reflected have a flat appearance.	**0-9**	
2	**Satin** (Honed)	Images of obejcts reflected have a matte appearance.	**10-39**	
3	**Polished**	Images of obejcts reflected do not have a sharp appearance, but can be easily identified.	**40-69**	**<10**
4	**Highly Polished**	Images of objects reflected have a sharp and crisp appearance, similar to a mirror. May require grouting.	**70-100**	