



## BONDED ABRASIVE POLISHED CONCRETE DEFINITION

**Polished Concrete:** The processing of a concrete surface with bonded abrasives to achieve a desired class of aggregate exposure and level of reflective clarity and reflective sheen.

**Processing:** The act of changing a concrete surface by means of a multi step mechanical process that involves cutting and/or refining the surface to the maximum potential with a bonded abrasive medium where each step cuts progressively finer microscopic peaks and valleys. Each step must be refined to its maximum potential in which the abrasive no longer cuts or cuts very little under its current weight.

**Bonded Abrasives:** Abrasive medium that is held within a bonding that erodes away to expose new abrasive medium as it is used.

**Aggregate Exposure:** Grinding a concrete surface with bonded abrasives, in as many abrasive grits necessary, to achieve one of the following:

CLASS	NAME	SURFACE CUT DEPTH	APPEARANCE
A	<b>Cream</b>	Very little	Little aggregate exposure
B	<b>Fine Aggregate (Salt and Pepper)</b>	1/16 inch	Fine aggregate exposure with little or no medium aggregate exposure at random locations
C	<b>Medium Aggregate</b>	1/8 inch	Medium aggregate exposure with little or no large aggregate exposure at random locations
D	<b>Large Aggregate</b>	1/4 inch	Large aggregate exposure with little or no fine aggregate exposure at random locations

**Reflective Clarity and Reflective Sheen:** Before application of a polish guard, polishing a concrete surface with the minimum number of bonded abrasives as indicated to achieve one of the following:

LEVEL	NAME	REFLECTIVE CLARITY	REFLECTIVE SHEEN	GRIT RANGE	MINIMUM NUMBER OF ABRASIVES
1	<b>Ground</b>	Flat appearance with no to very slight diffused reflection	None to very low	Below 100	4
2	<b>Honed</b>	Matte appearance with or without slight diffused reflection	Low to medium	100 to 400	5
3	<b>Semi-Polished</b>	Objects being reflected are not quite sharp and crisp but can be easily identified	Medium to high	800 and higher	6
4	<b>Highly-Polished</b>	Objects being reflected are sharp and crisp as would be seen in a mirror-like reflection	High to highest		7

**Reflective Clarity:** When viewed 5 feet above and perpendicular to a surface, the degree of sharpness and crispness of the reflection of overhead objects.

**Reflective Sheen:** When viewed at 20 feet from and at an angle to a surface, the degree of gloss reflected from a surface.