



# PUREPAVE

*Technologies*

www.purepave.com

## PUREPAVE ENGINEERING SPECIFICATION

1- Filtration rates are very high and can be customized based on requirements. Ranges from 4000L / M2 per hour up to 70,000L / M2 per hour.

\*Purepave can be customize the filtration rate by using a larger or smaller aggregate to increase / decrease air voids inside the pavement structure. Increasing filtration rate does slightly decrease tensile strength and shouldn't be pushed to the limits for higher vehicular traffic areas. As such, Purepave is the "most porous" permeable paving option available.

2- Long term studies carried out by our German, American and UK manufacturing partners have determined our material combination to be superior in longevity to concrete and asphalt, especially in our climate. In addition, it was recently recognized by the NRC that our material and its properties far outperform every other permeable paving material, including the NRC's own porous concrete design.

KPIs worth mentioning:

2a- Strain rate remains constant and insignificant, regardless of number of loads passing over Purepave surface.

2b- Degradation over long term is far less than conventional asphalt.

2c- Frost / thaw damage is mitigated by permeable design and PU properties of our material mix.

2d- Break point of PU remains constant across temperature ranges (-20 - +50).

2e- Resistant to: snow plow, salt, chlorine, oil, hydraulic oil, ozone, bromine and muriatic acid.

2f- Average MPa of 6.1, depending on aggregate mix used. The more dense the aggregate mix, the higher the MPa and lower the filtration rate.

\*Purepave is a layered design. Eventually, if stone loss occurs on the surface after x amount of years, another thin layer of Purepave can be installed over top to renew the surface and we never lose the original investment in the pavement surface from 20+ years beforehand.

3- Prices quoted include all manpower, equipment etc required to install Purepave. The prices do not include base construction since this is highly variable, depending on soil conditions, project size, current surface, etc. Depending on the project, the price can be more or less the same or a few \$ more per SF.

4- Thickness of Purepave on low traffic driving surface is 50mm and on a pathway it need only be 40mm. Likewise, the base requirements for pathways (unless a water retention reservoir is beneficial) can be 10-15cm rather than a full 30cm for driving surfaces. Permeable base construction should be done with clear stone rather than GA and always line the base with proper geotextile fabric (up the walls of the base as well). Further detail will require more information on the project site, drainage quota and soil conditions.

5- A sealer is applied after installation and although it is not required, should be applied every 5 years. The appropriate sealer will not compromise the porosity of the material.

6- We are happy to provide samples, where should we send them?

7- 5 year warranty (surface stone loss) on projects installed over existing surfaces and 10 year warranties are offered for projects that install a permeable base as well (max longevity and environmental benefit).