

Cerama Pave Installation Steps

1. Excavate to design depth.
2. Construct strong edge restraints appropriate for the site and application. (Edge restraints were not constructed for the demonstration site shown here.)
3. Prepare and compact base course.

Recommended material: 14 mm low fines crushed rock, basalt or equivalent preferably washed, with the following typical particle distribution:

SIEVE SIZE	PERCENTAGE PASSING
13.2 mm	81-97
9.5 mm	14-30
6.7 mm	0-14
4.75 mm	0-11

Compact in layers to design depth (normally 100-150 mm).

4. Cover base course with a nonwoven geotextile (hydraulic conductivity min. 3,600 mm/hr eg Geofirma 200B, Bidim A24 or equivalent).



5. Spread low fines bedding material to a uniform depth over unwovengeotextile, working no more than 1-2 metres ahead of laid paving units.

Recommended material: clean coarse sand with a particle size distribution within the following ranges:

SIEVE SIZE	PERCENTAGE PASSING
10 mm	100
5 mm	85-100
2.36 mm	65-100
1.18 mm	40-98
600 microns	25-72
300 microns	10-35
150 microns	0-15
75 microns	0-10

Moisture content should not exceed 4% when supplied and no more than 8% at the time of laying.

Allow 5-10 mm above finish level for settling after surface compaction.

Images below show two different bedding materials – coarse sand and 5 mm low fines aggregate.



6. Compact to depth of 30 mm: 3-5 passes at 30-40 metres per minute using a plate compactor having a minimum plate area of 0.25 m^2 ; minimum effective force per unit of plate of 75 kN/m^2 ; frequency of 65-100 Hz; and minimum mass of 200 kg.



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7. Level and adjust depth of bedding layer.



8. Immediately after screeding, lay main body of area with 60 mm thick Cerama Pave permeable pavers. Use a mechanical device to cleanly cut pavers. Adjust surface levels of laid pavers with rubber hammer.



9. Adjust joints.



10. Fill joints.

Brush in joint filler until all joints are completely filled.

Recommended material: clean sand having the following particle size distribution. Moisture content should not exceed 0.5%.

SIEVE SIZE	PERCENTAGE PASSING
2.36 mm	100
1.18 mm	90-100
600 microns	60-90
300 microns	30-60
150 microns	15-30
75 microns	5-10



11. Compact pavement with rubber plated compactor: 3-5 times at 30-40 metres per minute. Add joint filler as required to fully fill joints then compact again.



12. Brush off surplus joint filler.
13. Check paving unit levels and lines.
14. Adjust surface levels with rubber hammer.
15. Remove all materials from site.



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