



## INSTALLATION INSTRUCTIONS

For detailed installation instructions follow the directions provided by the manufacturers of the adhesives listed below.

### Interior and Exterior Applications

**For the optimum color blend and pattern, a dry layout is highly recommended.**

**Hive tiles can be installed with or without grout.**

We recommend the adhesives listed below or equivalents having the same physical/mechanical properties

- LATICRETE LATAPOXY 310 STONE ADHESIVE
- Bostic Industrial Grade 1100 FS Polyurethane Adhesive/Sealant
- Bostic Chem Calk-Commercial Grade 915 Polyurethane Sealant
- Bostic Heavy Duty Construction Adhesive (HDCA)
- Lepage PL Premium Polyurethane
- ARDEX WATM Epoxy Grout and Adhesive
- ARDEX S 48TM Rapid-Set Thin Set Mortar/Mastic Hybrid

During installation pieces must be selected simultaneously from different boxes to avoid repeating patterns. The adhesive should be applied to both the individual Hive piece and installation surface with the double spread technique. Excess adhesive should be removed using a dry spatula or sponge.

### PRECAUTIONS:

- Always follow and check your local building codes
- Petrastone's products are intended as a veneer covering only.
- Use of adhesive products not approved by Petrastone may cause installation issues.
- Application temperature should range between 41 degrees F (5 C) and 77 degrees F(25 C).
- Above 77 degrees F, the setting layer should be dampened with water and the pieces installed on the moist surface.
- Do not install on irregular or painted surfaces.
- Do not install on degraded / humid plaster or any other degraded surface.
- Do not install on light mortar or lime.
- All surfaces should be clean and free of any dust or other material that could cause lack of adhesion.
- Installations surfaces subject to high temperatures must be properly isolated.
- For exterior applications, it is recommended that expansion joints must be applied every 105 sq. ft. (10 sq. m).
- Can be installed over drywall

Non-standard applications must be discussed and reviewed with Petrastone before installation in order to receive the most suitable setting solution. Petrastone can be contacted at [http://www.petrastoneitalia.com/contatti\\_eng.htm](http://www.petrastoneitalia.com/contatti_eng.htm). Petrastone shall not be deemed responsible for any issue which may arise from non-standard installations if not contacted beforehand. Petrastone shall not be liable for any installation issue should the aforementioned setting instructions not be followed.

TEST RESULTS	ASTM TEST	HIVE
Absorption by weight %	C97	0.07%
Density & bulk specific gravity	C97	2583 kg./m <sup>3</sup>
Linear thermal expansion	C372	25.5609 x 10 <sup>-6</sup>
Bond strength	C482	827PSI
Freeze/Thaw resistance	C666	0.1% weight
Rupture modulus	C99	16.1 MPa
Compressive strength	C170	76.2 MPa
Abrasion index	C241	9.2
Knoop hardness	C849	1259 Mpa
Flexural strength	C880	16.6 MPa
Volatile organic compounds (VOC) emissions	CA01350	Compliant
Resistance to salt corrosion using S02 (PH<3)	Din 50021 class	Compliant
Ageing due to chemical-physical erosion	NF T30 049	Compliant