



SPECIFICATION FOR INSTALLATION OF NATURAL STONE IN A SWIMMING POOL

a) SCREED MORTAR:

Fixing natural stone on concrete floor with Laticrete 226 thick bed adhesive mortar mixed with Laticrete 3642 (prediluted with water 1:4) and applied to a thickness of 25mm. The mixing ratio shall be as follows:

50 kg bag (Laticrete 226) : 1 ltr (Laticrete 3642): 4 ltr (water)

The concrete floor shall be properly cured, clean and free from impurities such as dust, dirt, curing agents, sealers etc

Spread a slurry bond coat of Laticrete 111 mixed with Laticrete 3642(prediluted with water 1:2) over the thick bed adhesive while it is wet and install the tiles. Beat the tiles to ensure full bedding.

For detailed installation and laying procedure follow Laticrete Method Statement.

Laticrete products supplied shall be as Manufactured by MYK Laticrete India Pvt Ltd

Performance Properties:

Laticrete thick bed adhesive – Laticrete 226 + Laticrete 3642

Test	ANSI 118.1	Result
28 day compressive strength	ASTM C-109	3500 psi
28 day flexural strength	ASTM C-580	1500 psi
28 day tensile strength	ASTM C-307	400 psi

Product Standard : ANSI A-118.4-1992

b)WATERPROOFING:

The water proof membrane shall be Laticrete 9237 Waterproofing membrane which is liquid, thin and cold applied. The system consists of proprietary latex liquid and reinforcing fabric. The reinforcing fabric shall be used at coves, corners, joints, around drains etc.

The waterproof membrane shall be applied using a brush or roller.

The water proof membrane shall be applied over smooth and levelled cement screed/plaser surface free of dirt, dust, sealers, curing compounds etc.

For detailed installation and laying procedure follow Laticrete Method Statement.

Laticrete products supplied shall be as Manufactured by MYK Laticrete India Pvt Lt

Performance Properties:

Physical Properties	LATICRETE® 9237 Waterproof
Tensile Strength	450 psi (3.1 Mpa)
Elongation	< 400%
Hydrostatic Pressure	40hrs
Bond Strength of quarry tile to Membrane*	350 psi (2.4 Mpa)
Bond strength of wall tile to membrane*	375 psi (2.5 Mpa)
Dry Time @ 70oF (21oC) Cure Time @ 70oF (21oC) Full Cure @ 70oF (21oC)	Approx. 2-3 hrs 1 st coat Approx. 3-4 hrs 2 nd coat Approx. 5-7 days
Chemical Resistance	Brine Solution NA Sugar Solution NA Milk NA 10% Citric Acid NA 5% Acetic Acid NA 10% Sodium hydroxide NA Toluol NR Urine NA Calcium Chloride NA

Product Standard : ANSI 118.10

c) TILE FIXING:

Fixing natural stone in swimming pool with Laticrete 111 crete filler powder mixed with Laticrete 73 latex admix. The thickness of adhesive shall be based on the tile size

Tile size upto 300X300mm - 3mm adhesive thickness

Tile size 450X450mm – 4.5mm adhesive thickness

Tile size 600X600mm – 6.0mm adhesive thickness

Tile size 900X900mm – 7.5mm adhesive thickness

Tile size > 900X900mm – 9.0mm adhesive thickness

The mixing ratio shall be as follows

20kg bag Laticrete 111 : 5.5 ltr Laticrete 73

The plaster applied over the wall shall be strong, confirm to good design and capable of carrying out the weight of the tile, further the plaster shall be free of dirt, dust and level and true within 3mm in 2.5m.

The adhesive shall be applied using Laticrete square notch trowel as supplied by the company

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Performance Properties:

Latex fortified thinset adhesive - Laticrete 111 crete filler powder + Laticrete 73 Crete admix

Test	ANSI 118.4	Result
Initial Set	>6 hr	7 hr 30 min
Final Set	9 – 15 hr	9 hr 30 min
28 day shear bond	200 psi	275 psi
28 day compressive	2500 psi	3000 psi

Product Standard : ANSI A118.4-1999

d) JOINT FILLING:

Providing and fixing spacer as per architecture requirement and grouting the same with Latapoxy SP-100 stain free grout. Colour to be selected by the architect from the Laticrete grout shade card.

For detailed installation and laying procedure follow Laticrete Method Statement.

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Performance Properties:

Latapoxy SP100 Stainfree grout

Test	ANSI 118.3	Result
Water cleanability	> 80min (E-5.1)	(>80 min)
Initial setting time	> 2 hr (E-5.2)	3 hours 30 min
Linear Shrinkage	≤0.25% (E-5.3)	> 0.10%
Sag	No change (E-5.4)	No change
Shear bond strength	>1000 psi (E-55)	1200 psi
Compressive strength	3500 psi (E-66)	7500 psi

Tensile strength	1000 psi (E-5.7)	1500 psi
Thermal shock	> 500 psi (E-5.8)	1100 psi

CHEMICAL RESISTANCE CHART at 75°F (23°C)			
CHEMICAL NAME	Continuous Exposure	Intermittent Exposure	Splash Exposure
Milk	R	R	R
**Wine	R	R	R
Ethanol	NR (soft)	R	R
**Potassium Permanganate 10%	NR	R	R
**Potassium Permanganate 1%	R	R	R
Tannic Acid to 50%	R	R	R
Tartaric Acid to 50%	R	R	R
Phosphoric Acid to 80%	R	R	R
*Sulfuric Acid to 20%	R	R	R
Oxalic Acid to 10%	R	R	R
Lactic Acid to 5%	R	R	R
Acetic Acid to 5%	R	R	R
SodiumHydroxide to 50% Saturated	R	R	R
Benzoic Acid 5%	R	R	R
Sea Water	R	R	R
Fruit Juice	R	R	R
Methanol	NR	NR	R
Mek	NR	NR	R
Chloroform	NR	NR	NR
Methylene Chloride	NR	NR	NR
Toluene	NR	NR	R
Xylene	NR	NR	R

Product Standard: ANSI A118.3 – 1999

