

## LATICRETE 500

Providing and fixing spacer between tiles as per architecture requirement and grouting the same with Laticrete Tile Grout mixed with Laticrete 1776 Grout admix plus.

For joints 3-12mm, use Laticrete Sanded grout (500 series) mixed with Laticrete 1776.

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

10kg bag Laticrete Sanded grout: 1.75ltr Laticrete 1776 grout admix plus.

For detailed installation and laying procedure follow MYK LATICRETE Method Statement.

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

Performance Properties Laticrete 500:

Applicable Standards: Laticrete 500 Series sanded grout, when mixed with water:

ANSI A118.6; ISO 13007 – 4(CG1) / EN 13888

<b>ANSI Data</b>		
Property / Test Method	Requirement	Typical Values
Linear Shrinkage after 27 days: ANSI A118.6: Clause 4.3	Max 0.30%	0.08% - 0.1%
Water Absorption after 27 days: ANSI A118.6: Clause 4.4	Max 18%	10% - 16%
Compressive Strength after 1 day: ANSI A118.6: Clause 4.5	Min 500 psi (3.43 Mpa)	600 – 800 psi (4.12 – 5.50 Mpa)
Compressive Strength after 28 days: ANSI A118.6: Clause 4.5	Min 3000 psi (20.62 Mpa)	3050 – 3350 psi (20.97 – 23.03 Mpa)
Tensile Strength after 28 days: ANSI A118.6: Clause 4.6	Min 250 psi (1.71 Mpa)	300 – 400 psi (2.06 – 2.75 Mpa)
Flexural Strength after 28 days: ANSI	Min 500 psi (3.43	570 – 850 psi (3.91 – 5.84

A118.6: Clause 4.7	Mpa)	Mpa)
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**The grout mortar conforms to ANSI A 118.6**

ISO / EN Data		
Property / Test Method	Requirement	Typical Values
Abrasion resistance: ISO 13007 – 4: Clause 4.4; EN 12808 - 2	$\leq 2000 \text{ mm}^3$	1250 – 1500 $\text{mm}^3$
Flexural strength under standard conditions: ISO 13007 – 4: Clause 4.1.3; EN 12808 - 3	$\geq 2.5 \text{ N / mm}^2$	4.5 – 6.0 $\text{N / mm}^2$
Flexural strength under freeze and thaw cycles: ISO 13007 – 4: Clause 4.1.5; EN 12808 - 3	$\geq 2.5 \text{ N / mm}^2$	3.5 – 4.5 $\text{N / mm}^2$
Compressive Strength under standard conditions: ISO 13007 – 4: Clause 4.1.4; EN 12808 – 4	$\geq 15 \text{ N / mm}^2$	21 – 23 $\text{N / mm}^2$
Compressive Strength under freeze & thaw cycles: ISO 13007 – 4: Clause 4.1.5; EN 12808 – 4	$\geq 15 \text{ N / mm}^2$	16 – 18 $\text{N / mm}^2$
Shrinkage: ISO 13007 – 4: Clause 4.3 : EN 12808 – 4	$< 3\text{mm / m}$	0.8 – 1.0 $\text{mm / m}$
Water Absorption after 30 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	$\leq 5.0 \text{ g}$	3.0 – 4.0 $\text{g}$
Water Absorption after 240 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	$\leq 10 \text{ g}$	6.0 – 9.0 $\text{g}$

**The grout mortar conforms to ISO 13007 – 4 (CG1) / EN 13888.**

Laticrete 500 Series sanded grout, when mixed with Laticrete 1776 grout admix:

ANSI A118.6; ISO 13007 – 4(CG1) / EN 13888

ANSI Data		
Property / Test Method	Requirement	Typical Values
Linear Shrinkage after 27 days: ANSI A118.6: Clause 4.3	Max 0.30%	0.08% - 0.1%

Water Absorption after 27 days: ANSI A118.6: Clause 4.4	Max 18%	9% - 15%
Compressive Strength after 1 day: ANSI A118.6: Clause 4.5	Min 500 psi (3.43 Mpa)	650 – 850 psi (4.46 – 5.84 Mpa)
Compressive Strength after 28 days: ANSI A118.6: Clause 4.5	Min 3000 psi (20.62 Mpa)	3500 – 3750 psi (24.06 – 25.78 Mpa)
Tensile Strength after 28 days: ANSI A118.6: Clause 4.6	Min 250 psi (1.71 Mpa)	350 – 450 psi (2.40 – 3.09 Mpa)
Flexural Strength after 28 days: ANSI A118.6: Clause 4.7	Min 500 psi (3.43 Mpa)	700 – 950 psi (4.81 – 6.53 Mpa)

**The grout mortar conforms to ANSI A 118.6**

<b>ISO / EN Data</b>		
Property / Test Method	Requirement	Typical Values
Abrasion resistance: ISO 13007 – 4: Clause 4.4; EN 12808 - 2	$\leq 2000 \text{ mm}^3$	900 – 1400 $\text{mm}^3$
Flexural strength under standard conditions: ISO 13007 – 4: Clause 4.1.3; EN 12808 - 3	$\geq 2.5 \text{ N / mm}^2$	5.0 – 6.5 $\text{N / mm}^2$
Flexural strength under freeze and thaw cycles: ISO 13007 – 4: Clause 4.1.5; EN 12808 - 3	$\geq 2.5 \text{ N / mm}^2$	3.5 – 5.0 $\text{N / mm}^2$
Compressive Strength under standard conditions: ISO 13007 – 4: Clause 4.1.4; EN 12808 – 4	$\geq 15 \text{ N / mm}^2$	24 – 26 $\text{N / mm}^2$
Compressive Strength under freeze & thaw cycles: ISO 13007 – 4: Clause 4.1.5; EN 12808 – 4	$\geq 15 \text{ N / mm}^2$	16 – 18 $\text{N / mm}^2$
Shrinkage: ISO 13007 – 4: Clause 4.3 : EN 12808 – 4	$< 3\text{mm / m}$	0.8 – 1.0 $\text{mm / m}$
Water Absorption after 30 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	$\leq 5.0 \text{ g}$	2.5 – 3.5 $\text{g}$
Water Absorption after 240 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	$\leq 10 \text{ g}$	5.0 – 8.0 $\text{g}$

**The grout mortar conforms to ISO 13007 – 4 (CG1) / EN 13888.**

