



# CONSTROLOGIX ENGINEERING & RESEARCH SERVICES PVT. LTD.

Plot No.58/1,D-III,Block, Chinchwad,Pune,Maharashtra,India

Contact no.+91 9021232299 |Email : info@constrologix.com, | www.constrologix.com



TC-6012

## TEST REPORT TILE ADHESIVE

<b>Sample No.</b>	SM26071161	<b>Report No.</b>	TR25100131 - 1
<b>Customer Name</b>	<b>KAYRA CORPORATION PRIVATE LIMITED</b>	<b>Date of Receipt</b>	08/10/2025
<b>Customer Address</b>	604, Radhe Times Square, Near PDPU Cross Road, Koba, Gandhinagar , GANDHINAGAR, Maharashtra, --362421		
<b>Site</b>	604, Radhe Times Square, Near PDPU Cross Road, Koba, Gandhinagar , GANDHINAGAR, Maharashtra, --362421		
<b>Letter Ref</b>	--	<b>Date of Testing</b>	12/11/2025
<b>Id No</b>	T1 W/P - 22 %	<b>Report Date</b>	12/11/2025
<b>Type</b>	--	<b>Sample Condition</b>	Satisfactory
<b>ULR Number</b>	TC601225000017806F	<b>MAKE/SUPPLIER</b>	--

### TEST RESULTS FOR TILE ADHESIVE :

Sr. No.	Test particular	Test Method	Test Results	Specified Limits as Per Type					
				Type 1	Type 2	Type 3	Type 4	Type 5	
1	<b>Tensile Adhesion Strength ,N/mm<sup>2</sup></b>	IS 15477	--	--	--	--	--	--	--
1.1	<b>a) Dry Condition-14 days</b>		<b>Tensile strength</b>	<b>Remark</b>					
			i) 0.98	Cohesive failure in tile adhesive					
			ii) 1.05	Cohesive failure in tile adhesive					
			iii) 1.08	Cohesive failure in tile adhesive	--	--	--	--	--
			iv) 1.11	Cohesive failure in tile adhesive					
			v) 1.16	Cohesive failure in tile adhesive					
		<b>Avg. 1.08</b>							
		<b>b) Dry Condition-28 days</b>	i) 1.12	Cohesive failure in tile adhesive	0.5	1.0	1.5	1.5	2.0
			ii) 1.18	Cohesive failure in tile adhesive					
			iii) 1.17	Cohesive failure in tile adhesive					
			iv) 0.97	Cohesive failure in tile adhesive					
	v) 1.09		Cohesive failure in tile adhesive						
	<b>Avg. 1.11</b>								
1.2	<b>Wet Condition</b>	i) 0.92	Cohesive failure in tile adhesive	--	1.0	1.0	1.0	--	
		ii) 0.70	Cohesive failure in tile adhesive						
		iii) 0.78	Cohesive failure in tile adhesive						
		iv) 0.77	Cohesive failure in tile adhesive						
		v) 0.87	Cohesive failure in tile adhesive						
		<b>Avg. 0.81</b>							
2	<b>Shear Adhesion Strength, N/mm<sup>2</sup></b>		--	--	--	--	--	--	
2.1	<b>a) Dry Condition 14 days</b>		1.03	--	--	--	--	--	
	<b>b) Dry Condition 28 days</b>		1.09	1.0	1.25	1.5	1.5	6.0	
2.2	<b>Heat Aging Condition</b>		0.79	--	1.0	1.0	1.0	3.0	



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2.3	Wet Condition		0.75	--	1.0	1.0	1.0	--
3	Open Time , Minutes		35	--	--	--	--	--
4	Adjustment Time, Minutes		25	--	--	--	--	--
5	Slip , mm		0.30	Shall not be more than 0.5 mm				
6	Deformability, mm		2.08	Deformable adhesive ,S1>=2.5mm,<5mm				

Remark-

Conclusion :

Note: i) The test report and result relate to the particular specimen/ sample (s) of the material as delivered /received and tested in the laboratory. ii)The details given in ID Mark are as provided by Customer in test request form/letter iii) Any test report shall not be reproduced except in full, without the written permission from CERSPL.



[Scan to Authenticate report]



Reviewed By  
Nana Kale

END OF REPORT

Authorised Signatory

Ganesh Dase ( Technical  
Manager )

For, Constrologix Engineering &  
Research Services Pvt. Ltd.

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**TECHNICAL DATA SHEET**

**PRODUCT NAME:**

**KA T1 Type 1 Tile Adhesive**

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**DESCRIPTION:**

- Type 1 Tile Adhesive is a cement-based polymer-modified tile adhesive designed for fixing ceramic tiles on internal wall and floor surfaces. It offers strong adhesion, ease of application, and good slip resistance, ideal for dry areas.



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**FEATURES & BENEFITS:**

- Single component, just add water
  - Interior applications, polymer based
  - Economical & Easy to use
  - Bonds to various substrates
  - Exceeds ANSI A118.1T shear bond strength requirements
  - Complies with EN / ISO with a C1T classification.
  - Exceeds IS 15477:2019 – Type 1T Adhesive standards.
  - Can be fortified with latex admix for external Tile and Stone installations.
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## APPLICATION AREAS:

- Interior wall and floor tiling
- Suitable for ceramic tiles only
- Applicable on cement plaster, cement concrete, and blockwork surfaces

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## TECHNICAL DATA:

S. No.	Tests	Test Methods & Clause No.	Requirements	Results
1	<b>Tensile Adhesion Strength, Min, N/mm<sup>2</sup> -</b>			
(a)	Dry Condition	IS 15477:2019 Annex: A Clause No. 5.1	0.5 Min.	0.65
(b)	Wet Condition		N/A	N/A
2	<b>Shear Adhesion Strength, N/mm<sup>2</sup></b>			
(a)	Dry Condition	IS 15477:2019 Annex: B Clause No. 5.2	1.0 Min.	1.31
(b)	Heat Aging Condition		N/A	N/A
(c)	Wet Condition		N/A	N/A
3	<b>Open Time, Minutes</b>	IS 15477:2019 Annex: C Clause No. 5.3	Open time shall not be less than that stated by manufacturer Declared value = 15 Minutes (Min.)	25
4	<b>Adjustment Time, Minutes</b>	IS 15477:2019 Annex: D Clause No. 5.4	Adjustment time shall not be less than that stated by manufacturer. Declared value = 20 Minutes (Min.)	30

## COVERAGE:

Approx. 55-60 Sft per 20 Kg pack, using 1/4 x 1/4 (6 mm x 6 mm) square notched trowel for a bed of 3mm.

Coverage will vary depending on trowel notch size, type and size of tile and substrate smoothness and evenness.

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## PACKAGING:

Available in **20 kg** and **40 kg** laminated bags.

## SHELF LIFE & STORAGE:

12 months in original unopened packaging when stored in a dry place away from moisture.

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## SURFACE PREPARATION:

All surfaces should be between 45° F (4 °C) and 104° F (40 °C) and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds. Check the surface to be true to plumb. All slabs must be plumb and true to within ¼”(6mm) in 10 ft (3m). Rough or uneven concrete surfaces should be made smooth.

Dry, dusty concrete slabs or masonry should be dampened, and excess water swept off.

Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28\* days old before application.

### Mixing:

Place clean, potable water into a clean mixing bowl. Add KA T1 powder into the mixing bowl. Use approximately 4.4 – 4.8 L of water for 20 kg of powder. Mix by hand or with a slow speed mixer to a smooth, trowel able consistency. Allow the adhesive to slake for 5 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

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## MIXING INSTRUCTIONS:

1. Add the required quantity of clean water into a mixing container.
2. Gradually add KA T1 Tile Adhesive powder while stirring continuously.
3. Mix thoroughly to obtain a lump-free, uniform paste.
4. Allow the mixture to stand for 5 minutes, then remix before application.

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## APPLICATION METHOD:

1. Apply the adhesive using a **notched trowel**.
  2. Fix tiles within the **open time** of the adhesive.
  3. **Press tiles** firmly into position ensuring good contact with the adhesive.
  4. Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large format tiles (> 12”x12”) to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check the adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. Use of KAYRA spacer is recommended to provide grout joints between tiles / stones. The joint width shall be as per the recommendation of architect / engineer. Remove the spacers when the adhesive is set firm.
  5. If the adhesive is skinned over (not sticky), remove and replace with fresh adhesive.
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## PRECAUTIONS:

- Not suitable for wet areas or external applications.
- Do not add extra water/powder after mixing.
- Protect from rain or water for 24 hours after application.

**Disclaimer:** Kayra construction chemical dry mix products are guaranteed against material and manufacturing defects. The product is sold as per standard terms and conditions of sales, copies of which may be obtained on request. Kayra's endeavor is to ensure correct and accurate information on product performance and recommended specifications as mentioned in literature, and still may have to abstain from circumstantial deviations which are beyond control due to human intervention, atmospheric conditions or natural calamities which may not be in accordance with any advice, specification, recommendation or information given by it.



**KAYRA CORPORATION PVT LTD.**

(ISO 9001:2015, ISI 15477 :Certified Co.)

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