

Format No AT-01

Rev. No.00

TEST REPORT

TEST REPORT ISSUED BY: **LOCATION-01: VASAI LAB (TEST)**
TEST REPORT NO.
ULR NO.
TEST REPORT & ISSUE DATE:
DISCIPLINE : MECHANICAL TEST

SAMPLE TESTED BY/AT: **LOCATION-01: VASAI LAB (TEST)**
TRL-29906-TR-626712
TC571323100029572F
26/12/2023
GROUP NAME : BUILDING MATERIALS

CUSTOMER NAME & ADDRESS:

M/s Noff
House No-853/D, Gala No-01, Naseem Compound, Kambe Talavali Naka,
Bhiwandi (Municipal Corporation) Bhlwandi,
Thane

PROJECT SITE ADDRESS:

Noff
House No-853/D, Gala No-01, Naseem Compound, Kambe Talavali Naka,
Bhiwandi (Municipal Corporation),
Thane.

QUANTITY:

15 kg

DATE OF RECEIPT:

11/11/2023

CUSTOMER REF. NO & DATE:

Letter Dated-11/11/2023

CONDITION OF SAMPLE ON RECEIPT:

Ok

SOURCE OF SAMPLE AS GIVEN BY CUSTOMER:

White-Type 3

TEST METHOD:

IS 15477 : 2019

PHYSICAL TEST RESULTS OF TILE ADHESIVE

(*)TYPE OF TILE ADHESIVE : TYPE-3

PERIOD OF TESTING: 22/11/2023 TO 20/12/2023

(*)USE APPLICATION : NA

OPEN TIME (minute) : 50

(*)WATER-POWDER RATIO, % : 23

(*)DEFORMABILITY ADHESIVE CLASS : Adhesive S1

| Sr. No. | Slip, mm | Requirement as per IS 15477, Clause No 5.5 |
|---------|----------|--|
| 1 | 0.22 | Not more than 0.5mm for Vertical Application |

TENSILE ADHESION DRY CONDITION (28DAYS)

EXPRESSION OF REPORT: Normal Condition

| Sr. No. | Dolly Size (mm) | | Tensile adhesion Force, N | Tensile Pull Off Adhesion Strength(MPa) | Nature of Failure | Requirement as per IS 15477, Table-1, Min |
|---------|-----------------|-------|---------------------------|---|--|---|
| 1 | 50.91 | 50.73 | 3459.6 | 1.58 | Adhesive Failure between tile and adhesive | 1.5 N/mm ² |
| 2 | 51.09 | 50.89 | 3570.9 | 1.62 | Adhesive Failure between tile and adhesive | |
| 3 | 51.1 | 50.49 | 2837.3 | 1.29 | Adhesive Failure between tile and adhesive | |
| 4 | 51.2 | 50.17 | 3933.5 | 1.8 | Adhesive Failure between tile and adhesive | |
| 5 | 49.95 | 49.84 | 3478.4 | 1.64 | Adhesive Failure between tile and adhesive | |
| Average | | | | 1.66 | | |

TENSILE ADHESION WET CONDITION (28DAYS)

EXPRESSION OF REPORT: Normal Condition

| Sr. No. | Dolly Size (mm) | | Tensile adhesion Force, N | Tensile Pull Off Adhesion Strength(MPa) | Nature of Failure | Requirement as per IS 15477, Table-1 |
|---------|-----------------|--|---------------------------|---|-------------------|--------------------------------------|
| | | | | | | |

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| | | | | | | |
|---------|-------|-------|--------|------|--|---------------------|
| 1 | 51.05 | 49.94 | 2197.1 | 1.01 | Adhesive Failure between tile and adhesive | 1 N/mm ² |
| 2 | 51.07 | 50.63 | 2864.4 | 4.3 | Adhesive Failure between tile and adhesive | |
| 3 | 51.37 | 50.87 | 2217.6 | 1 | Adhesive Failure between tile and adhesive | |
| 4 | 49.56 | 49.55 | 2314.9 | 1.11 | Adhesive Failure between tile and adhesive | |
| 5 | 50.96 | 50.42 | 2119.5 | 0.97 | Adhesive Failure between tile and adhesive | |
| Average | | | | 1.02 | | |

SHEAR ADHESION DRY CONDITION (28 DAYS)

| Description | Spec.-1 | Spec.-2 | Spec.-3 | Spec.-4 | Spec.-5 | Requirement as per IS 15477, Table-1, Min |
|--|---------|---------|---------|---------|---------|---|
| Shear Area, mm ² | 9493.2 | 9550.3 | 9475.6 | 9457.5 | 9385.8 | 1.5 N/mm ² |
| Shear Load, N | 14789.6 | 14540.4 | 14546.3 | 13069.9 | 11419.8 | |
| Shear Adhesion Strength, N/mm ² | 1.6 | 1.5 | 1.5 | 1.4 | 4.2 | |
| Average Shear Adhesion Strength, N/mm ² | | | | | 1.5 | |

SHEAR ADHESION HEAT CONDITION (28 DAYS)

| Description | Spec.-1 | Spec.-2 | Spec.-3 | Spec.-4 | Spec.-5 | Requirement as per IS 15477, Table-1, Min |
|--|---------|---------|---------|---------|---------|---|
| Shear Area, mm ² | 9468.1 | 9453.8 | 9441.8 | 9560.1 | 9511.7 | 1 N/mm ² |
| Shear Load, N | 12010.4 | 11970.2 | 13599.6 | 10360.3 | 11190.3 | |
| Shear Adhesion Strength, N/mm ² | 1.3 | 1.3 | 4.4 | 1.1 | 1.2 | |
| Average Shear Adhesion Strength, N/mm ² | | | | | 1.2 | |

SHEAR ADHESION WET CONDITION (28 DAYS)

| Description | Spec.-1 | Spec.-2 | Spec.-3 | Spec.-4 | Spec.-5 | Requirement as per IS 15477, Table-1, Min |
|--|---------|---------|---------|---------|---------|---|
| Shear Area, mm ² | 9484.3 | 9531.5 | 9357.9 | 9473.4 | 9568.2 | 1 N/mm ² |
| Shear Load, N | 11589.5 | 10320.1 | 12869.7 | 8729.9 | 11379.6 | |
| Shear Adhesion Strength, N/mm ² | 1.2 | 1.1 | 4.4 | 0.9 | 1.2 | |
| Average Shear Adhesion Strength, N/mm ² | | | | | 1.2 | |

DEFORMABILITY AT 28 DAYS

| Sr. No. | Initial Reading, mm | Final Reading, mm | Deformability, mm | Remarks | Requirement as per IS 15477, Clause No 5.6 |
|---------|---------------------|-------------------|-------------------|---------|--|
| 1 | 0 | 2.92 | 2.92 | NA | 2.5 mm to 5.0 mm |
| 2 | 0 | 2.21 | 2.21 | NA | |
| 3 | 0 | 2.46 | 2.46 | NA | |
| 4 | 0 | 2.61 | 2.61 | NA | |
| 5 | 0 | 2.69 | 2.69 | NA | |
| Average | | | 2.578 | | |

(*)mark information furnished by the customer.

Individual Results which are differed more than 15% from the average has been discarded. If more than three out of the five units fail at forces outside these limits, repeat the whole test.

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NOTE:

- Sample/s was/were not drawn by laboratory.
- The Reported result/s is/are valid only to the sample submitted to the laboratory.
- No part of the report, except in full, shall be reproduced without written consent of the laboratory.

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*****End of Report*****



Mahemood ahmed
Authorized Signatory



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