

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-626711
TC571323100029570F
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:

DATE OF RECEIPT:

CUSTOMER REF. NO & DATE:

CONDITION OF SAMPLE ON RECEIPT:

SOURCE OF SAMPLE AS GIVEN BY CUSTOMER:

TEST METHOD:

15 kg

11/11/2023

Letter Dated-11/11/2023

Ok

White-Type 2

IS 15477 : 2019

PHYSICAL TEST RESULTS OF TILE ADHESIVE

(*)TYPE OF TILE ADHESIVE : TYPE-2

(*)USE APPLICATION : NA

(*)WATER-POWDER RATIO, % : 24

PERIOD OF TESTING: 21/11/2023 TO 19/12/2023

OPEN TIME (minute) : 45

(*)DEFORMABILITY ADHESIVE CLASS : Adhesive S1

| Sr. No. | Slip, mm | Requirement as per IS 15477, Clause No 5.5 |
|---------|----------|--|
| 1 | 0.12 | 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 | 51.13 | 49.87 | 2355 | 1.09 | Adhesive Failure between tile and adhesive | 1 N/mm ² |
| 2 | 51.24 | 49.36 | 2403.6 | 1.12 | Adhesive Failure between tile and adhesive | |
| 3 | 51.44 | 50.07 | 2217.6 | 1.01 | Adhesive Failure between tile and adhesive | |
| 4 | 50.89 | 50.01 | 2374.6 | 1.1 | Adhesive Failure between tile and adhesive | |
| 5 | 50.37 | 49.98 | 1825.1 | 0.85 | Adhesive Failure between tile and adhesive | |
| Average | | | | 1.08 | | |

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 | 51.08 | 50.07 | 1138.3 | 0.52 | Adhesive Failure between tile and adhesive | 1 N/mm ² |
| 2 | 51.04 | 49.9 | 1648.3 | 0.76 | Adhesive Failure between tile and adhesive | |
| 3 | 50.98 | 50.63 | 1138.3 | 0.52 | Adhesive Failure between tile and adhesive | |
| 4 | 51.12 | 49.98 | 1138.3 | 0.52 | Adhesive Failure between tile and adhesive | |
| 5 | 50.72 | 49.96 | 1354.1 | 0.63 | Adhesive Failure between tile and adhesive | |
| Average | | | | 0.55 | | |

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 | 9766.7 | 9711.6 | 9798.3 | 9770.7 | 9702.8 | 1.25 N/mm ² |
| Shear Load, N | 12530.3 | 13520.1 | 13899.8 | 15199.6 | 16219.9 | |
| Shear Adhesion Strength, N/mm ² | 1.3 | 1.4 | 1.4 | 1.6 | 1.7 | |
| 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 | 9763.9 | 9746.6 | 9729 | 9792.1 | 9549.7 | 1 N/mm ² |
| Shear Load, N | 12879.5 | 12869.7 | 12270.3 | 9640.3 | 14300 | |
| Shear Adhesion Strength, N/mm ² | 1.3 | 1.3 | 1.3 | 1 | 1.5 | |
| Average Shear Adhesion Strength, N/mm ² | | | | | 1.3 | |

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 | 9643.2 | 9708.2 | 9770.3 | 9791.5 | 9758.7 | 1 N/mm ² |
| Shear Load, N | 15769.6 | 12420.4 | 12659.8 | 12869.7 | 13949.8 | |
| Shear Adhesion Strength, N/mm ² | 1.6 | 1.3 | 1.3 | 1.3 | 1.4 | |
| Average Shear Adhesion Strength, N/mm ² | | | | | 1.3 | |

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 | 1.81 | 1.81 | NA | 2.5 mm to 5.0 mm |
| 2 | 0 | 1.73 | 1.73 | NA | |
| 3 | 0 | 1.96 | 1.96 | NA | |
| 4 | 0 | 1.74 | 1.74 | NA | |
| 5 | 0 | 1.96 | 1.96 | NA | |
| Average | | | 1.84 | | |

(*)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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