

**TECHINCAL DATA SHEET**

**NOVA 125**

NOVA 125 is a lightweight gypsum plaster for use on Internal substrates, e.g. brickwork, blocks or concrete (Using Walbond/ Quickbond/ Hacking). It provides an inert, smooth, high quality and durable base for application of decorative finishes over internal walls and ceilings.

**PRODUCT DESCRIPTION**

It is a lightweight, retarded hemihydrate, premixed gypsum plaster, with expanded perlite aggregates, requiring only addition of clean water to prepare it for use.

**TECHNICAL DATA**

|                    |  |
|--------------------|--|
| <b>Composition</b> | <b>Gypsum, selected lightweight fillers, polymers</b>  |
| <b>Colour</b>      | <b>White</b>   |
| <b>Features</b>    | <ul style="list-style-type: none"> <li>• Eliminates the two-step process of Sand Cement Plaster and Gypsum punning</li> <li>• Smooth &amp; matt finish</li> <li>• No shrinkage cracks</li> <li>• Good thermal resistance</li> <li>• No water curing</li> </ul> |
| <b>Uses</b>        | <ul style="list-style-type: none"> <li>• High value utilization</li> <li>• Excellent strength after drying</li> <li>• Direct and easy application</li> <li>• Great bonding</li> <li>• Light weight</li> </ul>  |

**STANDARD COMPLIANCE**

IS 2547 (Part II)- 2022 premixed lightweight plasters.  
IS 2542 (Prat I)- 2022 for Physical characteristics.

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**TECHNICAL ANALYSIS**

**TECHNICAL & PHYSICAL DATA**

| <u>Parameters</u>         | <u>Specification</u>                                  |
|---------------------------|---|
| <b>Whiteness</b>          | Min. 80%  |
| <b>Dry bulk density</b>   | Max. 770 Kg/m <sup>3</sup>                            |
| <b>Water powder ratio</b> | 0.90 : 1.00   |
| <b>Setting time</b>       | 20 - 30 minutes                                       |
| <b>pH</b>                 | 8 -10   |
| <b>Dry set density</b>    | < 1040 Kg/m <sup>3</sup>                              |
| <b>Shelf life</b>         | 4 months  |
| <b>Pack size</b>          | 25 Kg   |
| <b>Coverage</b>           | 30 to 35 Sq.-Ft./25 Kg bag at 13 mm thickness applied |

**MECHANICAL PROPERTIES**

**PULL-OFF STRENGTH (AFTER 14 DAYS)**

|                     |            |
|---------------------|------------|
| <b>Dry adhesion</b> | > 0.30 MPa |
|---------------------|------------|

**COMPRESSION & TRANSVERS STRENGTH (AFTER 7 DAYS)**

|                             |            |
|-----------------------------|------------|
| <b>Compressive strength</b> | > 0.30 MPa |
| <b>Transvers strength</b>   | > 1.0 MPa  |

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| <b>GUIDANCE TO USE</b>       |   |
|------------------------------|---|
| <b>Substrate</b>             | <ul style="list-style-type: none"> <li>• Brickwork</li> <li>• Block</li> <li>• Concrete surface (Using Walbond/ Quickbond/ bonding agent/Hacking)</li> </ul>  |
| <b>Substrate Preparation</b> | <ul style="list-style-type: none"> <li>• Ensure the surface is completely free from all dirt, loosely held plaster, powdery residue, oil grease or any other contamination. Any previous growth of fungus, algae or moss needs to be removed thoroughly by vigorous wire brushing and cleaning with water</li> <li>• Plaster should not be applied on surface if any free water is visible</li> <li>• Clean water should be applied 5-10 minutes before plaster application to control the suction</li> <li>• The hole and crack on the surface should be repaired in advance</li> </ul>                          |
| <b>Mixing</b>                | <ul style="list-style-type: none"> <li>• Use the mixture within 40 minutes to get the best result</li> <li>• Only clean water is needed for sample preparation</li> <li>• Mixing should be conducted in a clean tray or bucket</li> <li>• Water to plaster ratio (0.90 part of water : 1.00 part of plaster by weight) should be maintained to have good workable mix</li> <li>• Prepare plaster mix as per requirement</li> <li>• Once the mix has begun to set, water addition is not recommended</li> </ul>  |
| <b>Application</b>           | <ul style="list-style-type: none"> <li>• Check the verticality of the wall surface using plum bob &amp; remove undulation, if any</li> <li>• Apply NOVA 125 to solid surface with firm pressure</li> <li>• Check the thickness of the plaster. Average thickness range 6 to 12 mm in one coat</li> <li>• For thickness above 12 mm, material needs to be applied in two coats</li> <li>• As the plaster stiffens, conduct further flattening</li> <li>• Painting work should be started only after the surface becomes completely dry usually 72 hours (depends upon thickness and weather conditions)</li> </ul> |
| <b>Usage precautions</b>     | <ul style="list-style-type: none"> <li>• Do not add more water than recommended</li> <li>• Excessive mixing should be avoided</li> </ul>  |

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|--|--|
|  | <ul style="list-style-type: none"><li>• Tools and water used in mixing must be clean</li><li>• Contamination from previous mixes should be avoided</li><li>• To reduce the separation cracks, use of 145 GSM glass fiber mesh. (At the junction)</li><li>• It is not suitable for use in continuously damp or humid conditions</li><li>• NOVA 125 contains non-toxic material but still, it is important to wear a safety kit when mixing and handling</li></ul> |
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**PACKAGING & STORAGE**

- Store in cool, dry and well-ventilated place away from heat source or direct sunlight
- Keep away from water and damp areas
- Avoid using partially used material; open bags with partially used material should be kept in a bag with its mouth tied tightly with string to prevent lump formation
- As temperature, humidity, water addition and other parameters vary from site to site; the above information should be treated as general guidelines

**HEALTH & SAFETY INFORMATION**

It contains only eco-friendly fillers and additives. In case of eye contact, kindly wash with clean water for at least 15 minutes and seek medical help and keep it out of children reach.

**Disclaimer:** Technical information is based on knowledge and experience of accurate results. These results refer to the long-term application of the product in practice. Recommendations and suggestions are listed for guidance only. Since site conditions during the applications are beyond the manufacturer's control, hence it is also the responsibility of the end-user to ensure that the content in their possession is the latest case.