

MULTANI MAL MODI COLLEGE, PATIALA

DEMAND FOR QUOTATION

For Waterproofing of Roof Area with Dr. Fixit Roofseal Classic New

Sealed quotations are hereby invited from reputed and experienced waterproofing agencies/contractors for carrying out **waterproofing work of the College roof area measuring approximately 58,000 sq. ft.** using **Dr. Fixit Roofseal Classic New**, as per the specifications and methodology given below.

1. Scope of Work

The contractor shall execute the complete waterproofing work, including surface preparation, screed repair, crack treatment, treatment of joints/corners/penetrations and application of the waterproofing coating system, as specified below.

2. Surface Preparation

1. The existing roof substrate shall be pressure-washed with clean water using a minimum working pressure of **1,400–1,500 PSI** to remove all dirt, dust, chalking, loose material and other waste products.
2. Where algae, mould, fungus or other biological growth is present, the affected surface shall be cleaned using a **3:1 bleach solution or suitable bio-wash treatment** to eliminate such organisms.
3. All new cement-sand screed/IPS surfaces shall be allowed to age for a minimum period of **6–8 weeks** before application of the waterproofing topcoat.
4. The roof shall have a minimum slope of **1:80 to 1:100** towards the rainwater outlets to ensure proper drainage.
5. The soundness of the existing top screed, half-round angle fillets, plaster on vertical surfaces, joints around pipe ducts and rainwater outlets shall be checked by tapping with a nylon hammer. All loose, hollow or deboned portions shall be removed and repaired.
6. At least **one rainwater outlet of minimum 100 mm diameter for every 500 sq. ft. of roof area** shall be ensured, wherever required. Gaps around pipe inserts shall be properly sealed with polymer-modified mortar.
7. Areas having stagnant water due to undulations in the roof surface shall be identified, marked and repaired with polymer-modified mortar (PMM).
8. All joints, corners, penetration points, rainwater outlets and marble/tile strip joints shall be properly treated and grouted with PMM.

3. Screed Repair / Patch Repair

1. The existing roof surface shall be thoroughly inspected using a nylon hammer. All unsound, hollow, loose and deboned screed and defective plaster shall be removed.
2. Hollow or defective screed shall be cut and removed using suitable mechanical tools/cutters.
3. The exposed surface shall be cleaned thoroughly. A bond coat of **Dr. Fixit Pidicrete URP** mixed with cement in the ratio of **1:1 by volume** shall be applied as lump-free slurry over the pre-wetted surface.
4. Repair mortar/concrete shall be prepared using **Dr. Fixit Pidicrete URP @ 10% by weight of cement** in suitable M20 concrete/repair mortar, as per the manufacturer's recommended mixing ratio and technical data sheet.

5. The repair mortar shall be properly leveled and finished with a trowel.
6. Moist curing shall be carried out for a minimum period of **7 days**. Proper curing shall be ensured to minimize cracking and improve the physical properties of the repaired surface.
7. The repaired screed shall be allowed to air cure for **4–5 days** before application of the waterproofing coating system.

4. Crack Treatment

1. All visible cracks having widths from approximately **0.50 mm to 5 mm** shall be cut into a suitable **V-shape**, approximately **10 mm wide × 6 mm deep**, using a mechanical cutter.
2. The cracks shall be thoroughly cleaned using an air blower and all dust, dirt and loose particles shall be removed.
3. Cracks shall be filled with **Fevisal HY 100/300 Hybrid Sealant** using a suitable application gun and finished smoothly with a putty knife/trowel.
4. The sealant shall be allowed to cure for a minimum period of **72 hours (3 days)** before proceeding with subsequent waterproofing work.

5. Waterproofing Application

The waterproofing system shall be applied using **Dr. Fixit Roofseal Classic New** as follows:

a. Self-Priming Coat

One self-priming coat of Dr. Fixit Roofseal Classic New, diluted with water in the ratio of **2:1**, shall be applied at the manufacturer's recommended coverage rate of approximately **10–11 sq. m. per litre**.

The primer coat shall be allowed to dry for approximately **2–3 hours**, or as recommended by the manufacturer depending upon site conditions.

b. First Coat

The first coat of Dr. Fixit Roofseal Classic New shall be applied at a coverage rate of approximately **2–2.2 sq. m. per litre per coat**.

The coating shall be allowed to air cure for a minimum of **4–6 hours**, or as recommended by the manufacturer, before application of the subsequent coat.

c. Second Coat

The second coat shall be applied at approximately **90° to the direction of the first coat**, at the same coverage rate of approximately **2–2.2 sq. m. per litre per coat**.

The completed system shall achieve a total dry film thickness of approximately **450–500 microns**, subject to the manufacturer's technical specifications.

d. Additional Treatment

The coating shall be properly terminated below the drip mould on vertical surfaces.

All corners, gaps, joints, penetrations, roof leak repair areas and rainwater outlets shall receive **two additional coats** of the waterproofing material.

The completed waterproofing coating shall be allowed to **air cure for a minimum of 7 days** before being subjected to normal use or water exposure.

6. Total Roof Area

Approximate Roof Area: 58,000 Sq. Ft.

7. General Conditions

1. The contractor shall use only genuine and approved waterproofing materials and shall submit product literature/technical data sheets, wherever required.
2. The work shall be carried out strictly as per the manufacturer's recommended application procedure and technical specifications.
3. The contractor shall inspect the site and roof conditions before submitting the quotation.
4. The quoted rate shall include all labour, material, tools, equipment, transportation, application and incidental expenses necessary for completion of the work.
5. The contractor shall be responsible for proper surface preparation and workmanship throughout the execution of the work.
6. Any defective, loose or improperly executed work noticed during execution shall be rectified by the contractor at his own cost.
7. The contractor shall ensure proper safety arrangements for workers and shall be responsible for any loss or damage caused due to negligence during execution.
8. The contractor shall mention the **warranty period for the waterproofing work** in the quotation.
9. Payment shall be released as per the terms and conditions decided by the College after satisfactory completion and inspection of the work.
10. The College reserves the right to accept or reject any quotation, wholly or partly, without assigning any reason.
11. The final measurement of the completed work shall be verified by the authorized representative of the College before final payment.
12. GST shall be payable as applicable against a valid GST invoice.
13. Last date of filing the tender is 30.09.2026.

Principal

Multani Mal Modi College
Patiala