



Technical Details

# Water Proofing

- **Horizontal**
- **Vertical**

Edition  
**March 2024**

## LPPO (For finer voids)

LPPO (Leak Proof Part One) is in a **liquid format**. It impregnates into the pores and seals it completely. This can be brush applied and the maximum thickness derived is around 45-50 microns.

**COVERAGE:** 45-50 Sq.ft. per Kg in two coats



## LPPT (For deeper voids)

LPPT (Leak Proof Part Two) is in a **paste format**. This is used to fill bigger voids and to make the surface abrasion resistant. Must be used along with nylon membrane/mesh as a reinforcing agent.

**COVERAGE:** 7-8 Sq.ft. per Kg in two coats

### PRODUCT BENEFITS



Anti-Fungal



Water Resistant



Indentation Resistant



Exterior Grade



Tough & Durable



Color Fast

**SHELF LIFE**  
18 Months

**POT LIFE**  
3 Hours

### NOMENCLATURE

Providing and application of two coats of LPPO and two coats of LPPT by sandwiching the 45 GSM nylon mesh after cleaning the surface of loose particles, cement mortar, protruded RCC, etc. as per manufacturer's specifications and Engineer In-charge.

| PARTICULARS   | LPPO                                    | LPPT                                    |
|---|---|---|
| WEIGHT/LTR  | 1.16 KG/LTR                             | 1.7 KG/LTR                              |
| LEVELLING   | SELF LEVELLING                          | SELF LEVELLING                          |
| PH  | 7                                       | 7                                       |
| VISCOCITY WITH WATER 2:1  | 17 SEC                                  | 17 SEC                                  |
| SURFACE DRYING  | 30 MINS                                 | 30 MINS                                 |
| RECOATABILITY   | After 4 hours - Not later than 6 months | After 4 hours - Not later than 6 months |
| SOLID CONTENT   | 42%                                     | 80%                                     |
| MIN.THICKNESS (MICRONS)   | 30                                      | 800-900                                 |
| MAX.THICKNESS (MICRONS)   | 50-60                                   | 1000-2000                               |
| APPLICATION TOOL  | Brush/Roller                            | Trowel/Blade                            |
| BEST BEFORE   | 18 Months                               | 18 Months                               |
| TENSILE STRENGTH(ASTM D 638)  | Not required                            | 12.47N/mm2                              |
| ELONGATION AT BREAK AFTER 500 HRS OF UV (ASTM D 638) & (ASTM G 154) | Not required                            | 5.92%                                   |
| POLYMER CONTENT   | More than 40%                           | More than 40%                           |
| COMPRESSIVE STRENGTH (28 days) N/mm2 or Mpa                         | Not required                            | 7.2 (IS-17545-2021-Table2)              |
| FLEXURAL STRENGTH   | Not required                            | 1.9 (ASTM D 790- 17)                    |
| ADHESION STRENGTH TEST (e14 days) N/mm2                             | Not required                            | 2.2 (ASTM D 790--17)                    |
| UV RESISTANT  | Not required                            | 500hrs                                  |
| WATER ABSORPTION  | Nil                                     | Nil                                     |

## HORIZONTAL WATERPROOFING



- Terrace



- Swimming pool



- Water Tank- Tiled/ RCC



- Sunken portion



- Basement (from external side)

## **SOP FOR TERRACE/ SUNKEN PORTION**

1. Clean the surface completely.
2. Apply the first coat of LPPO with a roller in all eight directions over the surface.
3. Apply the second coat of LPPO after a gap of 4 to 6 hours.
4. Bore packing will be done by LPPT.
5. Fill major voids seen with LPPT.
6. Apply LPPT on the corners as coving upto 100X100 mm to 300X300 mm and reinforce the area with nylon mesh over it when the surface is wet.
7. Apply LPPT by reinforcing the 45 GSM nylon mesh across the surface and allow it to dry completely.
8. Apply the second coat of LPPT with a gap of 4 to 6 hours between the two coats.

## **SOP FOR TILED SURFACE IN TANKS/ WASHROOMS**

1. Open up the grooves.
2. Fill LPPO in the grooves first.
3. Apply the first coat of LPPO with a roller in a criss - cross manner across the surface.
4. Apply the second coat of LPPO after a gap of 4 to 6 hours.
5. Apply LPPT with 45 GSM nylon mesh. Allow it to dry completely.
6. Apply the second coat of LPPT with a gap of 4 to 6 hours.
7. Apply two coats of LPPO over it.

## **SOP FOR WET AREAS OVER FRESH CIVIL SURFGACE**

1. Apply first coat of LPPT by sandwiching the 45 GSM nylon mesh and allow it to dry completely.
2. Apply the second coat of LPPT with a gap of 4 to 6 hours.
3. Apply two coats of LPPO over it.

## **SOP FOR SWIMMING POOL**

1. Open up the grooves.
2. Fill LPPO in the grooves first.
3. Fill LPPO with a roller in a criss-cross manner across the surface.
4. Level the surface with LPPT.
5. Paste the tiles with LPPT.
6. Allow it to dry completely and apply the second coat again.

## **SOP FOR BASEMENTS**

1. Apply LPPT by sandwiching the 45 GSM nylon mesh over the RCC surface from the external side.
2. Allow it to dry completely and apply the second coat again.
3. Apply two coats of LPPO over it.
4. Fill the sand and mud.

- **For pasting tiles in any wet areas, use LPPT for pasting the tiles and Fill-O-Crack for grouting.**

## SOP FOR MOTHER SLAB



1. Clean the surface completely.



2. You may do the ponding test before starting the job.



3. Apply LPPO with a roller in a criss - cross manner.



4. Apply the second coat of LPPO after a gap of 4 to 6 hours.



5. Do coving with LPPT and mesh.



6. Fill major voids with LPPT.



7. Do the ponding test for leakages.



8. Apply LPPT with mesh.



9. Allow it to dry completely and apply LPPT again.



10. Bull marking for screed.



11. Henching.



12. Lay the screed.



13. Do the ponding test again.



14. Groove cutting.



15. Groove filling with LPPO.



16. Do the final ponding test.

## VERTICAL WATERPROOFING



- External weak plaster



- Plaster cracks



- Pre-cast joints



- Structural cracks



- Construction joints in masonry



- Cement Board joints

# MAGIC XP

## Elastomeric Paintable Plaster

Xylo paints - Magic Xp is an elastomeric paintable plaster/putty that is crack and leak free, hydrophobic, exterior grade self curing material available as a ready to use paste.



**BASE MATERIAL:**Water Based

### CHARACTERISTICS

- Indentation Resistant
- Eco-friendly
- Hydrophobic
- Elastomeric
- Anti-Fungal
- Available in colours

### APPLICATION PROCEDURE

- Clean the surface properly.
- Apply **P-Laster** - Coarse Polymerized Mortar where a thick plaster is required.
- Apply **Magic Xp** by reinforcing the 45 GSM nylon mesh over it.
- Apply the second coat of Magic Xp with a gap of 4 to 6 hours between the two coats.



# ENJOY THE RAINS

with Leakproof  
lamination

**bmtpc**



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