

LASTING SOLUTIONS FOR THOSE EVERLASTING PROBLEMS



NITYANAND

NITYANAND TURNKEY PROJECTS

ARCHITECTS, ENGINEERS, CONTRACTORS & WATERPROOFING CONSULTANTS



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Every activity has got several related problems, a few of them are recurrent in nature & a few of them are made recurrent. This again may be due to ignorance or lack of seriousness or as in most cases, due to wrong decisions taken.

To be precise, the above stated case holds well in construction-domestic & industrial-related activities. Again it relates not only to new constructions but existing structures too.

The problems could be anything from waterproofing, painting, flooring, plumbing, carpentry, P.O.P., etc.... These become recurrent when one makes the wrong decision by inviting the services of an incompetent but friendly neighborhood serviceman or calling an ordinary painter for waterproofing or a construction supervisor for flooring & plumbing purposes & so on. After a few months, to one's surprise & irritation, it is discovered that the problem has resurfaced, amounting to loss of time, money & satisfaction.

At such crossroads "Nityanand Turnkey Projects" provides the perfect rejoinder. "Nityanand Turnkey Projects" built on a platform of uncompromising commitment of a few good, dynamic & dedicated professionals with more than two decades of rich experience behind them. This result oriented dedication & professionalism has earned them recognition & contracts from reputed clients like L & T Ltd.-ECC Construction Group & Toyo Engineering- consistently for nearly a decade. The team has also successfully executed projects for MRPL, Essar Steel, Reliance Industries, JNPT, Vikram Ispat, besides a large list of blue chip corporates.

Of late we have also diversified into interior designing & decoration & have executed few retail outlets for Jyothy Fabricare Services Ltd., under the name of "Fabric Spa". Further with decades of experience in the waterproofing & building repair industry & having experienced the problem areas & shortcomings in the field, we have planned diversification into the construction industry, to deliver the best quality construction.

OUR MISSION

It is our mission to continually improve in the areas that we have chosen as our expertise; to fulfill the trust that our clients have placed in our skills; to train our employees to keep them current with the latest techniques & safety issues & to be the bench mark that others strive to emulate.

NTP offers you a real wide range of services that arguably no other organization in this field does.

Grouting:

- * Cementitious grouting
- * Epoxy Grouting
- * Polymer grouting
- * Polyurethane Grouting

Waterproofing:

- * Conventional Brickbat Coba System.
- * Epoxy Lining
- * FRP Lining
- * Polypropylene Lining
- * APP Bituminous membrane
- * EPDM Membrane
- * PVC Membrane
- * TPO Membrane
- * Polymeric Waterproof Coatings

Concrete repairs & Strengthening:

- * Guniting & Shotcreting
- * Polymer Repairs
- * Epoxy Mortar
- * Micro Concreting
- * Jacketing
- * Retrofitting - CFRP

Protective Coatings for Façade:

- * Conventional Paint System
- * Silicon Resin Emulsion Coating - Wacker Certified
- * Heat Management & Insulating Coating
- * Epoxy Coatings
- * Polyurethane -Water & Solvent based Coatings
- * Clear Coating in Acrylic PU & SREC

Specialty Coatings:

- * Sandblasting & Industrial painting
- * Anti -Corrosive coating
- * Non - Conductive coating - For fully A.C Rooms
- * Emissivity Coating -Heat Emitting Coating for buildings
- * Polyurethane & Silicone Coating

Floorings:

- * Aesthetic Floorings
- * Interior Flooring & Tiling
- * Industrial Flooring
- * Epoxy flooring
- * Acid proof flooring

Plumbing:

- * All types of plumbing - Internal & External

Fabrication:

- * Structural fabrication, Erection, Sandblasting & Painting.

Interior Decoration:

- * We have also diversified into interior designing & execution services customized to suit your personal

requirements.

These services are available for residential as well as commercial projects.

With such a wide range of services from "NTP", under one roof, one does not have to hire the services of cluster of organizations or individuals to attend to different needs.

NTP can give you the right technical advice, execute the same, provide post execution services & stand responsible for the work executed, as per the terms of the contract.

WATERPROOFING

BRICK BAT COBA SYSTEM

This is the oldest & the conventional method used to waterproof & insulate the flat roofs.

This is traditionally done by laying of brick bats on the slab which is covered with cement sand mortar or final finish of broken glazed tile pieces, (popularly known as china chips finish) as desired by the client.

However this treatment is advised only if the existing waterproofing treatment cannot be repaired further & not otherwise.

At times it is not necessary to entirely break open the existing system, At such cross roads, at **NTP** we treat such roofs just by filling cracks, pressure grouting the weak areas & coating the entire roof with specially formulated waterproof cum insulation coating.

Waterproofing being one of the critical aspects for any structure, At **NTP**, to deliver the best & long lasting job, all materials from bricks, sand, cement & other additives are meticulously selected.

WATERPROOFING BY MEMBRANES.

The conventional brickbat coba method though time tested, considering the present scenario, increase in every cost - right from labor to raw materials, time constraint & more importantly the adverse effect of breaking on the entire structure, At **NTP** we offer waterproofing treatment with different kinds of membranes to suit individual budget, location & the type of the structure. The cost & the lifespan of different membranes vary accordingly.

i) APP MODIFIED BITUMINOUS MEMBRANE

APP (Atactic-Polypropylene), has been one of the most economical, dependable & lasting - torch welded, modified bituminous membrane. At **NTP**, we meticulously design the laying pattern & decide the type of the membrane to be used, based on the site condition & the roof design to achieve the best results.

This membrane is recommended for moderate climate.



ii) SELF ADHESIVE INSULATING MEMBRANE

This is a self-adhesive membrane generally recommended on tinned corrugated roof, with no traffic movement.

The top visible surface has an aluminium foil finish to give insulation & waterproofing to the area below.

This is available in silver & terracotta colors.

These membranes are usually recommended for warehouses, industrial roofs, poultry farms, etc.



iii) ROOT INHIBITION MEMBRANE

This membrane is strongly recommended where the client intends to have a lawn or a garden on an open terrace.

This membrane does not allow the roots to penetrate the surface & cause damage to the existing waterproofing treatment & eventually the structure.



iv) PVC MEMBRANE

The word PVC is very commonly used & known to every household.

It is also known that PVC is a waterproof material, as it is widely used in domestic items like raincoats, jackets, tarpaulins, etc.

PVC (Polyvinyl chloride) is a trusted membrane that has been providing remarkable waterproofing protection for years together. PVC's popularity stems from its dependable, heat-welded seams, high reflectivity, superior physical attributes and resistance to water, chemicals & grease.

This is an imported membrane recommended for different tropical conditions of India.



WATERPROOFING

v) EPDM MEMBRANE

EPDM (Ethylene Propylene Diene Terpolymer) is a single ply membrane, with excellent weathering properties. Ideal for low & steep sloped roof designs & a variety of decks.

This membrane is available in larger sizes & therefore sometimes monolithic installation becomes possible in case of smaller areas. This membrane is strongly recommended for the structures located in low temperature areas. Ideal roofing option for northern climates.

vi) TPO MEMBRANE

Thermoplastic Polyolefin popularly known as TPO, is the segment which is widely accepted in the commercial roofing industry in the 21st century. However this system can also be used for residential structures as well. This membrane technic is recommended for mild to extremely hot temperature conditions due to its reflective cool-roof qualities.

This is either loosely laid & mechanically fastened or fully adhered, depending on the site conditions, with overlapping & welding the joints. Here the joints are heat welded at a specific temperature.

This membrane requires high technical skills for proper detailing & termination. It can be used for flat as well as sloping roofs. Ideal roofing option for southern climate.

WATERPROOFING OF FOUNDATIONS

This is of utmost importance, as foundation of any structure is the base on which the structure actually stands. Therefore any leakage in this will eventually affect the stability of the structure. Many a times due to leakage in the foundation, wet patches are seen on the ground floor walls & flooring, by capillary action.

To avoid these issues the foundation needs to be waterproofed thoroughly in the initial stage itself, as this cannot be treated at a later stage.

This is also an area of specialization of **NTP**.



WATERPROOF COATING

Besides membranes, waterproofing is also carried out with different kinds of coatings.

i) POLYPROPYLENE REINFORCED POLYMER (PRP SYSTEM)

At **NTP** we noticed that hairline cracks normally develop on a newly plastered surface, these are called crazy cracks.

The filling of these crazy cracks done looks shabby spoiling the looks of the building & the desired results are also not achieved.

Formation cracks is a common process due to change in the climate, temperatures & various other technical reasons.

To deal with this issue, with years of experience & technical know-how in this field, **NTP** has developed a new technic to waterproof the crazy cracks developed on the newly plastered surface.

This is an acrylic modified polymer coating reinforced with Polypropylene nonwoven fabric & is formulated in situ.

The coating is elastomeric, has excellent adhesion to the surface, with waterproofing & crack bridging properties. This can be covered with any desired paint & shade.

Moreover this system is not limited to crazy cracks treatment only, but is equally effective for the waterproofing of slabs & external walls of old buildings as well.

However this shall be decided by **NTP** experts.



WATERPROOFING

ii) EPOXY SYSTEM

This is a specially formulated multi-application system, achieved by combination of various grades of epoxy for different areas of application, reinforced with fiber glass woven fabric & fine aggregates.

The coatings & linings are sequentially applied to form a homogeneous & monolithic layer which has excellent waterproofing properties. This being a protective grade, has to be covered with a layer of P.C.C. to maintain the slope & final finish with IPS or broken tile pieces, (more popularly known as china chips finish) as desired by the client.

At NTP we recommend this system for terrace gardening. Usually in terrace gardening, soil is laid over brick bat coba for laying the grass or plants & thereby contributing to the additional load. However using this system the brick bat coba can be avoided reducing the effective load on the slab but the root inhibition membrane below the soil is mandatory.

This system being nontoxic & highly effective is recommended for swimming pools, waterbodies, and water tanks. However the use of this system can also be extended to waterproof the roofs & terraces as well.

This system is to be laid on the bare slab, after necessary surface preparation required for the best adhesion & performance & final finish as mentioned above.



STRUCTURAL

REPAIRS, RESTORATION & RENOVATION

STRUCTURAL REPAIRS, RESTORATION & RENOVATION

At NTP we offer numerous solutions for building refurbishment that lasts for years. These refurbishment can be broadly classified under three major heads

- a) Repairs
- b) Restoration &
- c) Renovation.

i) REPAIRS:

Repairs is a localized treatment given to the structure or the brick walls.

Repairing a building is like treating a patient. First comes the diagnosis, then follows the treatment. Therefore if the diagnoses are not proper the right treatment will not follow. In the same manner if the defects are not pin pointed repairing at times becomes merely an eye wash.

At NTP we study the existing condition of the building to be repaired with the various instruments, technical analysis, visual inspection & our technical know-how to decide the appropriate treatment to be adopted.

The different methods adopted are guniting, shotcreting, micro-concreting, polymer repairs, jacketing, etc. incorporating various construction chemicals in the process.



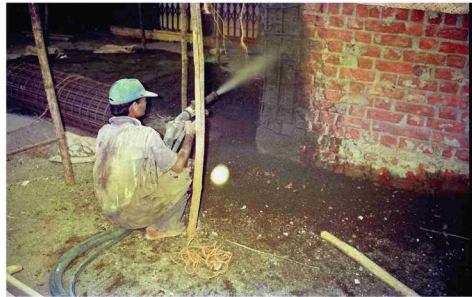
STRUCTURAL

REPAIRS, RESTORATION & RENOVATION

ii) RESTORATION:

Restoration is repairs & strengthening of every element of the structure & complete plastering, retaining the existing aesthetic look of the building.

NTP also undertakes restoration of structures. This restoration is done by studying the detailing and restoring to the minutest details, using ecofriendly materials, as we feel that from an ecological point of view, it is always preferable to preserve the existing building than to tear it down & rebuild.



iii) RENOVATION:

While doing the renovation we always make it a point that in addition to the structural stability we give a new look to the existing structure by making possible changes, in the form of coatings & enhancement of the architectural features.

This gives an identity to any NTP renovated structure.



SPECIALTY

PAINTING & COATING

SPECIALTY PAINTING & COATING:

Painting is generally looked upon as merely a process of beautification of the structure. However there is more to it than mere beautification. Painting at regular intervals with the right paint protects the building from fungus, algae, UV rays, development of vegetation, cleans the building, fills the cracks & waterproofs the surface. Selection of the right kind of paint not only decides the look but also the overall life of the structure, it protects the surface of the building from the burnt of vagaries & major maintenance expenditure, which eventually, takes away the originality of the structure & weakens it.

Therefore painting needs to be viewed very seriously.

FACADE PAINTING:

Almost all façades have the issues of hairline cracks & porosity spots. These are the major weak areas or rather sources of water seepage. If these are not timely & properly attended, lead to deterioration of the external surface & eventually the structural members due to the deep penetration of water.

These kind of surfaces also attract algae formation, vegetation growth, needless to say that it damages the structure by deep penetration of the roots & keeps the surface damp all the time.



i) SREPCOATINGS:

Considering the above problems, At NTP we have formulated specialized external coatings, suitable to our climatic conditions, based on Silicon Resin Emulsion. SREP coating provides water repellency, high water vapor permeability, low water absorption, UV resistance, lotus effect & excellent extended life.

The façade coated with this emulsion has high endurance & great durability. One more added advantage of this coating is, this can be pigmented to the desired shade & therefore additional cost of painting is avoided.

Thereby saving the time as well as money.

This coating is highly recommended for structures located in saline vicinity.



SPECIALTY PAINTING & COATING

ii) HEAT MANAGEMENT AND WATERPROOF COATING:

This coating works on the principal of reflecting & dissipating radiant heat, giving a cooling effect & maintaining the internal temperature of the structure. As the coating is of a nonconductive nature, it not only makes the structure cooler but also conserves energy.

This is ideal for ware houses, cold storages, and poultry farms & also the structures located in extreme climatic conditions. Ideal for North-west regions of India.

iii) INSULATING COATING:

This is a single component water based, high solids and elastomeric acrylic resin coating.

It is an advanced acrylic technology product manufactured by a combination of pigments, reinforcing fillers & thermal non-conductive materials. On application it forms a waterproof elastomeric seal, in the form of monolithic membrane that provides protection from ageing, UV rays & normal weathering.

It also reflects heat as well as prevents the heat flux transmission. Since this coating can be also pigmented to the desired shade, it serves the multiple purpose of waterproofing, painting as well as insulation, thereby reducing the overall cost as well as time frame. Further it reduces the building maintenance cost as well as saves energy.

This works out economical in the long run. This is ideal for regions with moderate climatic conditions.



ANTI CONDENSATION COATING:

In any air conditioned premise, due to regular use of the air condition, condensation occurs on the internal walls. This again leads to fungus & algae formation on the walls.

To prevent this we have developed a specialized coating called as anti condensation coating.



SANDBLASTING & INDUSTRIAL PAINTING:

Sandblasting is a process of spraying dry sand at high pressure by pneumatic compressor against metallic & nonmetallic surfaces, removing paints, mill scale, rust, etc.

Sandblasted surface exposes the natural steel grey surface identified by different grades such as SA 2 1/2, SA 3, to Swedish Standards.

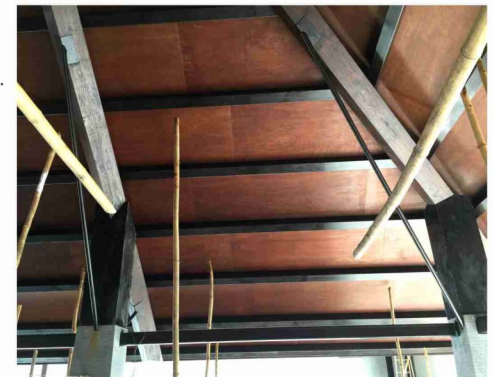
These grades are again determined by the location, use of the structure & pollution level.

This system is highly recommended for industrial structures located in saline vicinity & areas with high level of pollution.

Again the quality of the paint to be used is also determined considering the location & use of the structure.

This process increases the overall life of the metal structure & therefore strongly recommended for industrial structures of chemical, Petrochemical, steel Industry, etc.

Here we would like to emphasize that since we have a strong technical back up, we formulate & manufacture certain coatings based on the specific requirement of each site & location.



INTERIOR DESIGNING & EXECUTION

INTERIOR DESIGNING & EXECUTION:

With the growing economy & globalization, interiors is no longer just an art of decoration but has actually become a technology to present the commercial/residential premises in a more effective & functional way.

Though waterproofing & structural repairs has been our core activity, we have always been executing interior projects for select clientele. At **NTP** we believe that interiors is a combination of art & science to handhold & translate the ideas & dreams of the client in the most practical way within a stipulated budget. The interior projects includes residential as well as commercial projects like offices, banks, shops, etc.

This has been possible due to the highly skilled technical team & supporting work force to achieve the desired look right from the design stage to the actual execution. This includes interior designing consultancy, as well as contracting for all types of interior projects.

All services like civil works, carpentry works, electrical works, painting, wall paper, fabrication, etc. are available under one roof.



BUILDING CONSTRUCTION:

While doing the waterproofing, structural repairs & interiors, over the years we noticed that most of the times the materials & techniques used in the construction were to a great extent responsible for the poor condition of the structures.

Most of the times the safety, technology, material quality, workmanship all these important aspects have taken a back seat, eventually leading to major repairs much before the normal lifespan of the structure.

This is exactly where **NTP** makes a difference. We give first priority to the quality of materials, workmanship & all the technical aspects & the aesthetics follows. As per the principle 'form follows function'.

We are specialized in bungalows & villas.



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SOME OF OUR PRESTIGIOUS CLIENTS:

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CORPORATES:

- * JNPT
- * Essar Gujarat Ltd.
- * Reliance Industries Ltd.
- * Tata Electric Ltd.
- * Tata Hydro Electric Ltd.
- * Vikram Ispat LTD.
- * MRPL
- * Forbes & Co. Ltd.
- * Mahindra & Mahindra Ltd.
- * Conart Engg. India Ltd.
- * Tropical Nortec Pvt. Ltd.
- * Consulta Enterprises

ARCHITECTS & CONSULTANTS:

- * Ar. Ganesh Shenoy
- * Ar. Falli Oonwala
- * **Dara Mistry & Partners**
- * Ar. R J. Batliboi
- * Ar. Roopa Mohanani
- * P. Hadkar & Associates
- * Mehta & Mehta Associates

CO-OPERATIVE HOUSING SOCIETIES:

- * Kedar Darshan C.H.S.
- * Tejas C.H.S.
- * A.H. Wadia Baug C.H.S.
- * Rustam Baug C.H.S.
- * Mahesh Villa C.H.S.
- * Jaysheel C.H.S.
- * Bakhtawar Annexe C.H.S.
- * Raj Mahal C.H.S.
- * Sea Shell C.H.S.



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