



Tekncoat Coating Solutions

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TEKNCOAT

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1. POLYURETHANE

1.1 WETFLEX

It is a single component specially formulated moisture cured Polyurethane waterproofing, with excellent properties as it treats the substrate to develop an effective water proofing coating.

Uses and application:

- Water proofing of Bathrooms, Kitchen, Wet areas, Planter boxes etc.
- Good resistance to humidity and temperature.
- Excellent resistance to Chlorides and Alkalies.
- Good Elongation properties to take care of minor substrate movement.
- Good impact resistance and tensile strength.

1.2 ROOFLEX PW 700

It is a single component specially formulated moisture cured Polyurethane waterproofing, with excellent properties as it treats the substrate to develop an effective water proofing coating

Uses and Application:

- Water proofing of Roofs, basements, Bathrooms, Kitchen, Wet areas, Planter boxes etc.
- Good resistance to humidity and temperature. • Excellent resistance to Chlorides and Alkalies. • Good Elongation properties to take care of minor substrate movement. • Good impact resistance and tensile strength.

1.3 ROOFLEX SUPER

It is a single component specially formulated moisture cured Polyurethane waterproofing, with excellent properties as it treats the substrate to develop an effective water proofing coating.

Uses and application:

- Water proofing of Bathrooms, Kitchen, Wet areas, Planter boxes etc.
- Good resistance to humidity and temperature.
- Excellent resistance to Chlorides and Alkalies.
- Good Elongation properties to take care of minor substrate movement.
- Good impact resistance and tensile strength.

2. BITUMEN EMULSION

2.1 BITA ROOFLEX

Polymer Modified High Build Elastomeric Bitumen Membrane

BITAROFLEX is a cold applied viscous elastomeric bitumen emulsion when applied on concrete surface dries to form a seamless tough water proof vapor membrane. Suitable for use as damp proof membrane on all wet area floors, walls and roofs where concrete substrate cracking may occur.

Uses and application:

- For water proofing of concrete structures above and below ground.
- For roof coating on concrete slabs.
- Protect the concrete from salt, sulphate, and air born contaminants.
- Vapor barrier on building facades beneath marble and cladding.
- Waterproofing of pile caps, tie beams, etc.
- Protection of metal surfaces.
- Coating on old bitumen coating surface.

Features and benefits:

- Excellent crack bridge ability.
- Seamless and tough water proof membrane with great elongation and self healing.
- Excellent adhesion to all substrates, concrete, brickwork, metal, timber, and bitumen felts, etc.

3. POLYMER MODIFIED CEMENTITIOUS SLURRY

3.1 V11 S

It is a cementitious waterproofing compound. Acrylic liquid mix and cement based powder mix, when mixed in predetermined proportion, provides slurry with good workability for application of waterproofing.

Uses and application:

- Water proofing of Roofs, basements, Bathrooms, Kitchen, Wet areas, Planter boxes etc.
- Good resistance to humidity and temperature.
- excellent resistance to Chlorides and Alkalies.

Standard compliance:

BS 6920:2000 - Suitability of non-metallic products for use in contact with water intended for human consumption.

BS 6920: Part 3:2000 - Site applied products high temperature test.

WRAS Approved - approval number 1307502

3.2 V11

This is a two component waterproofing system, synthesized using a revolutionary, Eco-friendly polymer binder. Introduction to this super polymer opens out a new arena to the family of construction materials. The polymer is specially formulated with cement-based compounds, along with additives to give excellent water and salt resistance. The membrane formed has an excellent water and salt resistance. One part of dry mix comprising special grade cement, selected fillers and compounds is mixed with the polymer SUPER BINDER and additives at site prior application.

Uses and application:

Provides seamless waterproof coating of internal and external wet areas such as bathrooms, kitchens, balconies, terrace, gutters etc. Waterproofing coating to water containment tanks, pools, ponds and other wet areas. Can be used over ground on slabs as a barrier to dampness directly below screeds of tile and natural stone finishes.

4. POLYUREA COATING

4.1 TEKNPLUS

Solvent Free Polyurethane Hybrid material

TeknPlus is a Solvent free Polyurethane Polyurea hybrid material with excellent protective properties used for corrosion protection and water proofing of concrete, steel and other substrates.

Features and benefits:

- Rapid application by spray machines.
- Not affected by high Humidity.
- Not affected by low temperature.
- It can be applied from 1 mm to 5 mm thick in single application depending on skill of applicators.

Uses and application:

- Protection where chemical and abrasion resistance is required.
- Suitable for water retaining structures and tanks.
- Protection on concrete and steel in sewerage tanks and aggressive environments.
- Recommended for structures in marine area subject to chloride and sulphate attack.
- For culverts and tunnels.
- For light and heavy industrial structure.
- Ideal for effluent and water tanks.

4.2 TEKNPLUS SUPER

100 % Solids Pure Polyurea Material.

Environmental friendly, VOC free, totally solvent free 100 % solid polyurea material with excellent protective properties used for corrosion protection and waterproofing of concrete ,steel and other substrates. Two component 1 : 1 ratio autocatalytic, fast curing system for limitless applications

features and benefits:

- Rapid application by spray machines.
- Insensitive to moisture.
- Fast set, return to service in minutes.
- Flexible, bridge cracks to seamless.
- Excellent resistance to thermal shock.
- It can be applied from 1 mm to 5 mm thick in single application depending on skill of applicators.

5. EPOXY

5.1 TECHNORESIN

Technoresin is a high build, two component epoxy resin with good chemical and abrasion resistance and does not support bacterial growth.

Features and benefits:

- Excellent adhesion to wall , ceiling and roof parapet.
- Resist weather and atmospheric changes.
- Protective coating against any kind of bacterial growth.
- Highly chemical resistant .
- Non toxic and solvent free
- Hygienic and easily cleanable
- Excellent adhesion, toughness, and overall chemical resistance.
- Waterproof and protective coating
- Non toxic, can be used in potable water storage tanks.
- Easy application either by roller or brush.

Uses and application:

- Underground lift pits
- Sump pits
- RC water tanks, metallic storage tanks containing potable water, certain chemicals oils and fuel.
- Excellent resistance to chemicals and hence wall coating for manholes, sewerage lines, manufacturing units and breweries.
- Decorative and protective coating in laboratories, abattoirs, refineries, power stations, hospitals, desalination plants and other liquid containment areas.
- Can be applied on weak concrete surface to stop and prevent cracking further.

6. FLOOR COATING

6.1 EPOXY PRIMER

Versatile Epoxy Primer use as the prime coat for both, Epoxy and Polyurethane floor coating and Epoxy Screed. It is a low viscosity two-component epoxy resin coating on concrete and other mineral surfaces.

Features and Benefits:

- Used for sealing the concrete surfaces by filling into the minute cracks and fissures, thereby block the pores, preventing air release so that the subsequent coating applied on the primed surface cures without any blow holes.
- It improves adhesion of the main coat.
- Ready to use packs.
- High adhesive strength and mechanical properties.

6.2 P500

High build Solvent Free Epoxy coating for Industrial coatings.

P500 is a two-component solvent free epoxy floor coating system, which is designed for continuous protection in light to heavy-duty application. It provides a high gloss, seamless, surface that is hardwearing and durable. The system consists of pre weighed colored base and hardener components. It cures to a semi gloss finished and easily clean. The coating can also be applied to provide a non-slip texture and may be top coated if required

Features and Benefits:

- Self leveling, penetrates and strengthen porous surfaces such as concrete.
- Durable and good resistance to wear and abrasion
- Low odor during application
- Adheres durably to a variety of substrates .
- It withstand light to heavy foot traffic.
- High adhesive strength and mechanical properties.
- Excellent adhesion, toughness, and overall chemical resistance.
- Seamless and complete protection
- Good color and finish
- Excellent long term protection and cost effective.

Uses and Application:

P500 provides a hard, abrasion chemical and slip resistant floor finish to areas such as:

- Chemical plant
- Factory Floors
- Dairies
- Food and soft drink production places
- warehouses • Car production plants, pharmaceutical and laboratory installations
- Car park flooring
- Show rooms

6.3 P600

High Build Solvent Free Polyurethane coatings.

Two-component solvent Free Polyurethane applied coating provides slip resistant, chemical, abrasion resistant and completely waterproof floor finish.

Features and Benefits:

- Complete waterproofing from internally and externally.
- Provides an adequate slip resistance to the floor.
- Unaffected by weather and corrosion.
- Adheres durably to a variety of substrates.
- Textured finish and selected colors for good appearance.
- High adhesive strength and mechanical properties.

Uses and Application:

P600 provides a slip resistant, hard, abrasion and chemical resistant floor finish to areas such as:

- Parking areas
- Factory Floors
- Industrial Floorings
- Chemical manufacturing units
- Warehouses
- Passageways etc.
- Dairies
- Food and soft drink production places
- warehouses
- Car production plants, pharmaceutical and laboratory installations
- Car park flooring
- Show rooms

6.4 SL 501

SL 501 provides special Epoxy floor screed with very high mechanical strength for abrasion and chemical resistance.

Benefits:

- Solvent free.
- Greater resistance to abrasion and chemical corrosion.
- Recommended for heavy traffic and car parking floors.
- Heavy engineering industrial floors.
- Food processing area floor coatings.
- Thickness varies from 3mm to 5 mm.

6.5 SL 502

Polymer modified Water based Cementitious self-leveling flooring system.

Benefits:

- Pre pack, Ready To use
- Fast setting
- Self Leveling
- High Abrasion resistance
- Cost Saving

Uses and Applications:

SL 502 is applicable in public and industrial buildings, for leveling and smoothing new or existing concrete in thickness from 5 to 50 mm, to make them suitable for heavy pedestrian. Use in industrial warehouses, school , offices, shops, showrooms and areas where rubber-wheeled vehicles are in use.

Product Identity:

- Consistency: fine powder
- Color : gray
- Bulk density : 1.30 kg/ m³
- Dry solid content : 100 %

6.6 TG113 GROUT

Two pack Water born Epoxy Cement Grout and Screed. Powder mix is specially blended with Epoxy resin and the hardener is packed separately for mixing at site with required amount of water.

Features and Benefits:

- Solvent Free, Incombustible, Non Toxic.
- Easy to apply and can be cleaned with water
- Good chemical resistance
- Good adhesion on wet substrates
- Waterproofs the coated area
- Good water Permeability
- Prevents Osmotic Blistering
- No Shrinkage on Curing
- Can be applied from 1 mm to 25 mm thickness

Uses and Applications:

- Coating on wet concrete
- Repairing of damaged concrete
- New coat on old concrete as base for new flooring
- Leveling of uneven flooring.

6.7 TG 113C

Two pack fast curing, non -flow epoxy compound, adhesive and repair mortar

TG 113c is a non flowing epoxy bedding compound suitable for a variety of bedding, gap filling and concrete repair applications. It is a two-component mortar filled with selected fine aggregates.

Features and Benefits:

- High strength
- Chemical resistant
- Impact resistant
- Non shrinkage on curing
- No primer required
- Strong adhesion

Uses and Application:

- For repair of fine cracks and spalls.
- Gap Filling Adhesive
- Repairing surface defects
- Bedding tiles
- Grouting

7. PROTECTIVE COATING

7.1 SILIFLEX

Colorless water- repellent impregnation.

Siliflex is a solvent based ready to use, transparent, deep penetrating, non yellowing one component siloxane based solution used as an effective and long lasting water repellent.

Features and Benefits:

- Offers excellent water repellence and long lasting protection
- It is vapor permeable, permitting breathing of the structure.
- Does not form a skin on the application surface and does not alter its appearance.
- Protects the surface from salt stains, effects of frost or dirt, because it prevents absorption of rain water or filth.
- Suitable for a very alkaline surface.
- Quickly efficient after application.
- Non staining, non yellowing.

Uses and Applications:

Siliflex is used as highly effective water repellent on :

- Building facades or sloping surfaces
- Natural stones
- Marbles
- Plaster
- Exposed concrete
- Limestone

It will prevent water penetration and give effective protection from UV degradation, dirt and contaminants and unchanged appearance after application.

7.2 ACRYLIC REFLECTIVE CITEX

It is a quality 100 % Acrylic water based ceramic filled elastomeric coating. CITEX is specially blended with ceramic borosilicate micro spheres and other insulating fillers for effective insulating coating on metal, concrete, Polyurethane, Aluminum etc.

Features and Benefits:

- Heat reflecting and dissipating properties.
- Extremely durable and adhesive coating.
- White in color and effective radiant heat barrier.
- Emits absorbed heat quickly to control heat build up on the surfaces.
- Blocking ultra violet degradation of the coating system.
- Excellent dirt pick up resistance.
- Highly water resistant.
- Eco Friendly and no VOC at all.

Durability :

CITEX coating of 12 mils will be durable for 10 yrs. Ceramic in the paint increases reflectivity and emissivity of heat from the surface and thus eliminate thermal stress on the surface and thereby reduces wear rate of the coating due to environmental factors. Insulating effect of the product remains unchanged through out its useful life of minimum of 10 years.

7.3 ANTI CARBONATION TEKNSEAL

TeknSeal WB is water based acrylic modified, flexible, decorative and protective surface coating. It has a high build anti carbonation properties plus the applied coating gives a degree of flexibility. The coating also provides a waterproof coating that gives resistance to ingress of deleterious substance harmful to reinforced concrete or masonry.

Features and Benefits:

- Prevention of carbonation, and sulphate attack in concrete and other cementitious materials.
- Waterproof-, protective- and decorative coating.
- Protection against ingress of de icing slats weathering and the effects of freeze/thaw cycle.
- Excellent adhesion to porous masonry substrate.
- Easy to use, non-toxic and VOC compliant.
- Excellent UV protection
- Good Chemical resistance..
- Environmental Friendly.
- Good color retention.

Uses and Applications:

Teknseal WB is suitable for application to the following properly prepared surface :

- Concrete
- Masonry
- wood
- metal
- Interior wall and ceiling paints

7.4 ROOFTEK

Multi- purpose, elastomeric coating for use on all types of roof . It is eco friendly, odourless acrylic based protective coating that forms a durable and flexible membrane and excellent UV protection.

Features and Benefits:

- Provides a superior adhesion to various substrate.
- Easy to use, non-toxic and VOC compliant.
- Excellent UV protection
- Reflects the sun's UV rays helps reduce cooling costs and prevents premature degradation.
- Environmental Friendly.
- Energy Savings.

Uses and Applications:

ROOFTEK is suitable for application to the following properly prepared surface:

- Metal Roofs
- Polyurethane foam
- Concrete roof
- Modified Bitumen and galvanized metal roofs
- Single ply roofing (EPDM, PVC)

7.5 TECHNTEX

Acrylic base, high flexible coating.

Technotex is an acrylic base, high flexible coating. It is easy to apply and has excellent adhesion to the wall, ceiling and roof parapet surfaces with high resistance to weather and atmospheric changes.

Uses and Application:

- Excellent adhesion to wall, ceiling and roof parapet.
- Resists weather and atmospheric changes.
- Protective coating.
- Internal Parapets of roof.
- Applied on W2 on the walls & parapets.
- As a decorative finish material.
- Suitable for exterior substrates and masonry surface.
- Applied on interior ceiling under the main roofs of building which suffer from humidity and peeling.

Advantages :

- Because of its high resistance to water and atmospheric changes the coating lasts for period more than 10 years.
- Protects the Energy Saving coat.

7.6 W1

Single component, liquid polyurethane designed to carry back vapor pressure or water coming through walls from outside.

W1 comes in a liquid form and protects against moisture, water and corrosive salts. It acts as a humidity barrier coat in extreme temperatures ranging from -40 0C to -150 0C. It is used in many applications to solve paint problems both interior and exterior.

Uses and Application:

- W1 has excellent corrosion properties and is suitable for interior applications beneath decorative finishes.
- Used as anti carbonation coating.
- The protective W1 prevents the lateral spread of corrosion or crusting resulting from scratches, chips or abrasions.
- It has excellent curing properties to treat the exterior masonry walls in case of plaster damages or presence of moisture.
- It has unique resistance properties to mechanical loads in many applications including floorings.
- It serves as an application outside water tanks to protect the reinforcement against vapor penetration.
- It is applied on uncovered bituminous boards used in hot climates for protection.
- It is used in reservoir concrete walls to provide a continuous barrier against penetration of water vapor and to protect its contents.
- W1 is applied on the back of the marble slabs. It acts as an excellent barrier against humidity and by virtue of the insulating properties prevents it changing color of the marble.
- It is used in septic tanks to prevent passage of bad odors.
- Fills all minute hair line cracks and pores while providing a continuous barrier.
- Acts as a primer before application of W2.

7.7 W2

Solvent based coating barrier against humidity, water and temperature variation.

W2 comes in a liquid form which renders a coating suitable to provide continuous barrier against temperatures and humidity. It has got a very good bonding to different surfaces and by virtue of its insulating properties ensures big energy savings. It has also excellent elastic properties and resistance to the effects of long term weathering and durable in all climatic conditions.

Uses and Application:

- It is used to isolate the walls being applied beneath the paint as well as under marble and for isolating Dome of mosques and other buildings.
- Used as anti carbonation coating.

- To isolate stair-case room walls, concrete bases of tanks and also lift room walls.
- To isolate compound walls, especially in coastal environments as it has excellent resistant to salt attack and humidity.
- W2 is included in the waterproofing system in metal roofs.
- It protects concrete columns from water vapor penetrations to the reinforcement. It prevents chemical reaction taking place when water vapor reaches the salts in concrete columns.
- when applied to concrete blocks walls externally prior to the installation of prefabricated concrete of GRC units in elevation, it protects the walls by preventing dampness due to its resistance to capillary property.
- In case of stone pitching application over W1, sand shall be spread over W1 (wet stage),as per requirement, for additional bonding with the stone pitch material.
- Because of its insulating properties, it ensures big energy savings.
- Paint peel off from concrete, black masonry surfaces is prevented.

8. ROOF COATING

8.1 TEKNCOAT COOL ROOF

TEKNCOAT Cool Roof System is a composite system, which provides waterproofing and thermal insulation. It consists of thermally resistant polyurethane foam, rubberized bitumen emulsion for Waterproofing and UV Protection, complete with screed and top additional waterproofing.

TEKNCOAT Cool Roof System, is approved by Dubai Municipality. Spray applied polyurethane foam, the critical component of Cool Roof System is manufactured strictly according to ISO 9001:2008 Quality Management System, tested, validated and Certified by Dubai Central Laboratory.

