

PRODUCT CATALOGUE

Adhesives & Primers

Cement Additives

Concrete Admixtures

Repair & Restoration

Floorings

Grouts & Anchors

WBD Systems

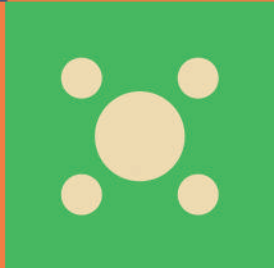
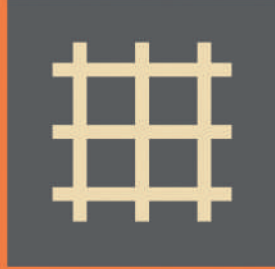
Sealants

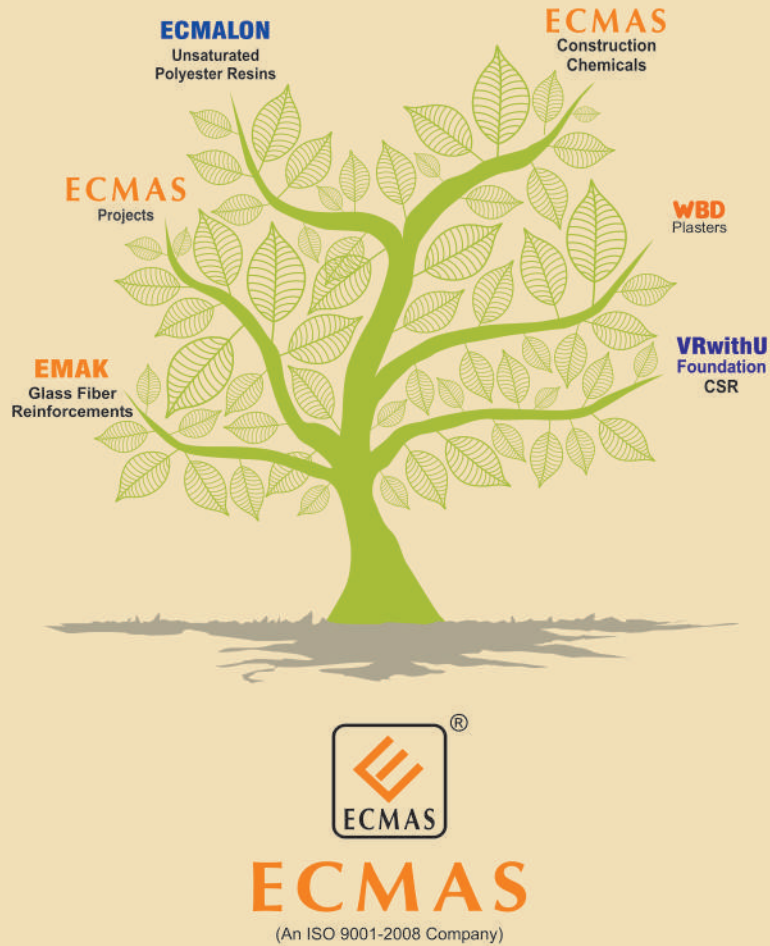
Protective Coatings

Waterproofing

Synthetic Structural Fibers

Soil Stabilizers





About Us

The ECMAS group is a leading manufacturer and supplier of construction chemicals, unsaturated polyester resins and specialty chemicals and a builder and developer of sustainable residential spaces.

Our product and application teams work closely with our customers to understand site-specific requirements and provide intelligent, workable and complete solutions along every step of the way. ECMAS employs and trains talented industry professionals to be conversant with the latest technologies and innovations in application and processes. Our project teams are led by dedicated managers who come with real-world experience and a passion for solving client problems.

ECMAS exists to serve its customers. Every one of our people believes that the customer is why we are here and it is this conviction that shapes our thinking and dominates our actions. We will always aim to meet and exceed our customers' expectations. This is the ECMAS Promise.



CONCRETE ADMIXTURES



CONCRETE ADMIXTURES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAPLAST 104M 	Super Plasticiser & Retarding Admixture : High workability without addition of water. Improved quality. High Slump Retaining ability.	Used for pumpable concrete. Used for concreting in hot weather conditions & RMCs for slump retention and producing pumping concrete with high ultimate strength, Suitable for Bridges, Flyover, pre-stressed concrete girders, etc.	0.4 to 1.4% by weight of Cement
ECMAPLAST 104 SPL 	Super Plasticiser & Retarding Admixture with high slump, Improved Quality, Increased Strength, Avoids cracks formation & cold joints.	Speeds construction, increases work ability and cohesion, Aids pumping by reducing line friction and dry packing, Low porosity resulting in substantially improved water penetration resistance and is highly effective for production of RMS	0.4 to 1.4% by weight of Cement
ECMAPLAST 104 Bloc 	Super Plasticiser for Block, Pavers Good water reducing capacity, increases strength, reduces cement content, better early gain of strength.	Precast concrete industry of concrete bricks concrete blocks, pavers, slabs.	0.5 to 1.4% by weight of Cement
ECMAPLAST 105 	Air-Entraining Admixture : Increased Concrete Workability, Increases resistance to freeze thaw effect & de-icing salt. Controls Heat of Hydration.	Used for low Permeability Concrete, Water retaining structures (Dams, Reservoirs, Canals).	0.2 to 0.4% by weight of Cement
ECMAPLAST 106 	Accelerating Plasticiser for Concrete : Chloride free Accelerates the initial setting time Proved Rapid Development Strength, Makes quick demoulding possible.	Used for Precast & Prestressed concrete industry. For concreting in Cold Weather Condition manufacture of Cement tiles etc.	1 to 3% by weight of Cement
ECMAPLAST 107 	Admixture for Blocks : High Performance, Minimises the damage to Block edges.	Used in Concrete Block Industry in order to get high quality and neat finished Concrete Blocks, Cement Saving - strength Density and yield maintained with less cement. increased strength - higher without additional cement. Reduced Breakages - breakages reduced through increased "Green Strength". Increased Durability - Air entrainment offers resistance to attack by frost and de-icing salts.	0.2 to 0.5% by weight of Cement
ECMAPLAST 108 	Admixture for Mortar : High performance in making smooth creamy mortar with all types of Sands. Minimises shrinkage crack Improves weather resistance reduces rebound losses.	Used for Plastering, Screeding work, in order to improve finish & appearance of the surface both internally and externally. Increases yield in cement mortar. Internationally used for faster, higher quality plastering and masonry. Increased water retention.	0.12% to 0.4% by weight of cement

CONCRETE ADMIXTURES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAPLAST 109 	Polymer based admixture for tiles, paver blocks.	For manufacturing better quality tiles, power blocks, precast elements with increased strength & optimum cement contents.	0.4% to 1% by weight of cement
ECMAPLAST 110 	Retarding plasticiser for cement mortar and plasters.	To extend the set time of plasters and mortars to enable longer application time of mixed mortar.	0.05% to 0.50% by weight of cement
ECMAPLAST CI 2000 	Corrosion inhibitor.	Durable concrete with high early strength & corrosion protection.	10 - 30 ltr / m ³
ECMAPLAST CI 2020 	Bi-polar corrosion inhibitor.	Used in all reinforced concrete, where corrosion protection is mandatory.	2 - 3 kgs / m ³
ECMAS HP 888 	Super plasticizer based on selected PC polymers.	Super plasticizer for HPC and HSC specially designed for RMC Industry.	0.4% to 1.4% by weight of cement
ECMAS HP 890 	Super plasticizer based on selected PC polymers.	Super plasticizer for HPC and HSC specially designed for RMC Industry.	0.3% to 1.4% by weight of cement
ECMAS HP 891 	Super plasticizer based on selected PC polymers.	Super plasticizer for HPC and HSC specially designed for RMC Industry.	0.3% to 1.4% by weight of cement
ECMAS HP 900 	Super plasticizer based on selected PC polymers.	High performance super plasticizer for HPC and HSC specially designed for RMC industry.	0.3% to 1.2% by weight of cement
ECMAS HP 901 	Hyper plasticiser based on pc technology.	High strength, high slump concrete with low w/c ratio. Used in free flow concrete, high strength concrete, high strength concrete SCC.	0.25% to 1.4 by weight of cement

CONCRETE ADMIXTURES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAS HP 902 	Hyper plasticiser based on latest advances in PC technology.	Used for high quality HSC, HPC, SCC.	0.25% to 1.4% by weight of cement
ECMAS HP 903 	PC based Hyper plasticiser with improved properties.	Very powerful water reducing admixture used for production of HSC, HPC, SCC.	0.25% to 1.4% by weight of cement
ECMAS HP 904 	PC based Hyper plasticiser with improved properties.	Very powerful water reducing admixture designed to give high early strength & also suitable for SCC.	0.25% to 1.4% by weight of cement
ECMAS VMA 	Viscosity modifying admixture for concrete.	To enhance the cohesion of concrete specially designed for SCC.	0.05% to 0.20% by weight of cement
ECMACURE WB 	Liquid Wax based concrete curing compound when sprayed on freshly poured concrete, forms a seamless film providing a moisture barrier that optimizes water retention to ensure effective curing and hydration of the cement. The white pigment reflects the sun's rays to help keep the concrete surface cooler and prevent excessive heat buildup	"Used in areas where water is scarce and conventional water pounding is not possible. Suitable for use on all concrete surfaces especially for larger areas of concrete construction such as concrete floors, pavements, runways, motorways, etc."	5-6 Sqm/ Liter (200 Liter HDPE Barrels)
ECMACURE AB 	ECMACURE AB is a water based, acrylic curing compound with excellent adhesion property with freshly applied concrete and cementitious substrates to form a temporary membrane which will retain sufficient moisture for effective curing to take place.	Useful for curing of larger areas of concrete such as pavements, runways and bridge decks, also for vertical or sloping surfaces as on high rise buildings, towers, chimneys, canal linings, columns and beams etc. where water curing is difficult or unreliable.	4-6 Sqm/ Liter (200 Liter HDPE Barrels)
ECMACURE HARD 	"Chemically Reactive, Silicate based, Concrete Curing, Hardening and Sealing compound for concrete and cementitious substrates."	Useful for large areas of concrete such as pavements, runways and bridge decks, precast concrete segments, etc. where water curing, water ponding or using polyethylene sheets are difficult or unreliable. It also helps to harden older, porous concrete to minimize surface dust caused by abrasion and carbonation.	3-4 m ² /Kg/Coat (200 Liter HDPE Barrels)
ECMARELEASE - WB 	Water based, Concrete Mould releasing agent. Non-Staining, high quality. Ensures good fair faced concrete.	To provide quick, clean and easy stripping of moulds and formwork for Poured concrete, Precast & Pre-stressed concrete. It is suitable for all types of formworks like Steel, Plastic, timber, fiber glass, boards for concrete block manufacturing, etc.	25 - 30 m ² /kg on steel and 20-25 m ² /kg on wood/plywood (200 Liter HDPE Barrels)









WATERPROOFING



WATERPROOFING PRODUCTS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMACOAT 210 	Acrylic Polymer based waterproofing and surface protective coating and mortar modifier	ECMACOAT 210 can be used for surface treatment, protection and general repairs of concrete and masonry structures. It can be used for waterproofing of basements, toilets, terraces, small terraces, etc.	Consumption as per usage Package 20 Kg 200 kg HDPE Drums
ECMACOAT 201 	Two Component, Acrylic Polymer based Ready to use, Brush or Roller applied Cementitious Waterproofing coating for Concrete and Masonry structures	Suitable for Waterproofing of Terraces & sloping roofs, Toilets, Balconies & Utility areas, Water tanks, Basements, etc.	1.8- 2.0 Kg/ Sqm Package 14 Kgs (Part A - 4 Kg & Part B - 10 Kgs)
ECMACOAT 201 F 	Two Component, Acrylic Polymer based Brush or Roller applied Highly Flexible and Breathable, Cementitious Waterproofing coating	Suitable for Waterproofing of Terraces & sloping roofs, Toilets, Balconies & Utility areas, Water tanks, Swimming Pools, Basements, etc.	1.5 Kg/ Sqm Package 13 Kgs (Part A - 5 Kg & Part B - 8 Kgs)
BETONGUAINA S. 	UV resistant, highly flexible, 2 component, liquid applied elastomeric membrane based on Hybrid Co-polymers and reactive fillers	Suitable for exposure grade, heavy duty waterproofing of new and old concrete slabs, sloped roofs subjected to severe climatic conditions	2.2 Kg/ Sqm Package 20 Kgs (Part A - 13.33 Kg & Part B - 6.67 Kg)
ECMACOAT FLEX PU 40 	Single component, Pure Polyurethane resin based Elastomeric Waterproofing Membrane with > 93% solid contents and 650% Elongation	Flat or Pitched Roofs, Terraces, Green Roofs, Podiums, Planters, Utility Areas, Swimming Pools, etc.	1.35 ± .05 Kg/ Sqm/ mm Package 25 Kg / 28 Kg
ECMACOAT FLEX PU 60 - 2K 	Two component, Pure Polyurethane based Exposure Grade Waterproofing & Trafficable Membrane, > 85% solid contents and 500% Elongation, 7 ± 1 N/mm ² Tensile Strength	Exposed Concrete or Metal Roofs; Walkable or Trafficable Roofs/ Podiums/ Planter Boxes; Car Parking Areas, External Building Walls/ Facades, etc.	1.35 ± .05 Kg/ Sqm/ mm Package 30 Kgs (Part A - 20 Kg & Part B - 10Kg)
ECMACOAT FLEX PUR 10 	Two component, spray applied, fast curing, solvent free, hybrid Polyurea membrane. 100% solids and zero VOC, >500% Elongation, Tensile Strength >10 N/mm ²	Waterproof and protective coating for concrete, steel, substrates - Podium decks, Green roofs, Swimming Pools, Water Tanks, Tunnels, STP, etc.	1.1 Kg/ Sqm/ mm Package 200Kg + 210Kgs




WATERPROOFING PRODUCTS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION									
ECMACOAT FLEX PUR 20 	Two component, spray applied, fast curing, solvent free, hybrid Polyurea membrane. 100% solids and zero VOC, > 450% Elongation, Tensile Strength >18 N/mm ²	Waterproof and protective coating for concrete, steel, substrates - Podium decks, Roof gardens, Green roofs, Swimming Pools, Water Tanks, STP, Tunnels, Flyovers, etc.	1.1 Kg/ Sqm/ mm <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Package</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">200 Kg + 210 Kgs</div>									
ECMAGUARD WPL 	Plasticising and integral liquid waterproof admixture. Disperses instantly with gauging water making mortars & concrete water tight. Improves Workability, Cohesion of the mix.	Used to produce cohesive & low permeability concrete and mortars mix to used for protection plasters and screeds, retaining structures, sunken slabs, etc.,	0.2 to 0.4% by weight of cement <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Package</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">20 Kg 200Kgs</div>									
ECMACRYSTAL 203 	Brush applied Integral Crystalline Slurry Coating Waterproofing system	Post construction crystalline waterproofing system suitable for waterproofing of below grade concrete structures like basement retaining walls, foundations, water bodies, etc.	1.2-1.5 Kg/ Sqm <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Package</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">25 kg</div>									
ECMACRYSTAL ADMIX 204 	Integral Crystalline Concrete Admix in powder form to be added in fresh concrete during batching process to produce waterproof concrete	Crystalline Capillary Waterproofing system reducing concrete permeability significantly. Suitable for waterproofing of below grade concrete structures like basement raft & retaining walls, foundations, water bodies, etc.	0.8%-1.0% by weight of Cement <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Package</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">25 kg</div>									
ECMACRYSTAL 205 	Dry shake powder based Integral Crystalline waterproofing system for green concrete	Suitable for dry shake application by hand or mechanical spreader on green concrete in horizontal slabs like raft slabs, grade slabs, etc.	1.0 Kg/ Sqm <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Package</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">25 kg</div>									
ECMACRYSTAL 206 	Integral Crystalline based, high strength Polymer Mortar	Repair & waterproofing of Concrete Construction Joints, Cracks, Honeycomb Patches, Covings, Tie-Rod Holes, etc. in below grade and water retaining structures	Approx. 1.5 - 1.6 Kg/RMT for sealing U shape grooves of size 25 mm x 25 mm <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Package</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">25 kg</div>									
ECMAFLEX PUF 40 	Two-component, spray applied polyurethane foam insulation. It is used for high-performance thermal insulation for roofs, walls and various other Applications	To provide an easy, fast and efficient insulation system for roofing and walls, insulated coaches/ vans, cold storages, etc. wherever seamless thermal insulation is required.	2.3 kg / Sqm/ 50 mm thickness, Consumption may vary as per thickness and density <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Package</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Part - A 210 Kg Part - B 250 Kg</div>									
ECMASHIELD TPO 	Exposure Grade, eco-friendly, preformed TPO membrane with high Solar Reflective Index	Exposure grade waterproofing of flat or slopped roofs for new constructions; Re-roofing applications subjected to foot traffic; Cool Roof applications	Roll Size: 2 m x 25 m in 1.2 mm, 1.5 mm thicknesses. Other thicknesses and rolls size can be supplied only for larger volumes <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Thickness</td> <td>mm</td> <td>1.2</td> </tr> <tr> <td>Width</td> <td>m</td> <td>2</td> </tr> <tr> <td>Length</td> <td>m</td> <td>25</td> </tr> </table>	Thickness	mm	1.2	Width	m	2	Length	m	25
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ECMASHIELD PVC 	Twin color, non-reinforced PVC geomembrane for heavy duty waterproofing system meant for below grade structures	Waterproof lining for Road, Railway and Metro tunnels and UG stations, Deep basements (Raft & Retaining Walls) in high water table area; Large Podiums and Green Roofs; Lining of canals, water reservoirs, STP tanks, etc.	Roll Size: 2 m x 20 m in 2 mm thicknesses. Other thicknesses and rolls size can be supplied only for larger volumes <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Thickness</td> <td>mm</td> <td>2</td> </tr> <tr> <td>Width</td> <td>m</td> <td>2</td> </tr> <tr> <td>Length</td> <td>m</td> <td>20</td> </tr> </table>	Thickness	mm	2	Width	m	2	Length	m	20
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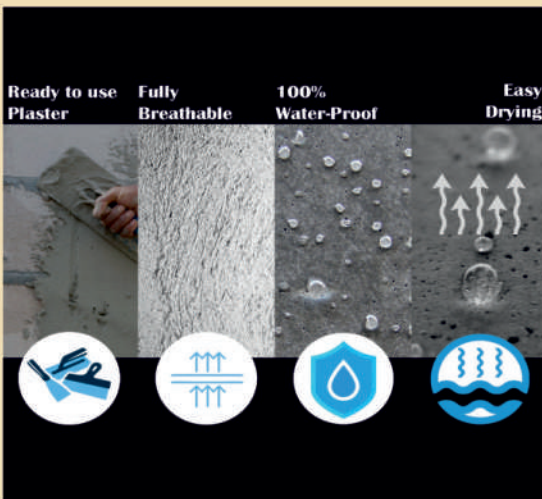
WATERPROOFING PRODUCTS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMASHIELD HDPE 	Fully bonded, Pre-applied HDPE waterproofing membrane system for underground concrete structures	Waterproofing of Basements Rafts and Retaining Walls, Waterproofing Cut & cover tunnels	Roll Size: 1 m x 20 m, 2 m x 20 m in 1.2 mm & 1.5 mm thicknesses Other thicknesses and rolls size can be supplied only for larger volumes
ECMASHIELD APP 	Atactic polypropylene modified, polyester reinforced bituminous membranes. Also available with glass fiber reinforcement and plain/ mineral finishes	Used for flat or sloped concrete roofs, podiums, tunnel and basement water proofing.	Roll form, 1 mx10 m (width x length) Thickness:3mm & 4mm
ECMASHIELD SA 	Self-Adhesive SBS Modified Bituminous Waterproofing Membrane	Waterproofing of raft foundations, retaining walls, flat slabs, pile caps, tie beams, etc. damp proofing course for tanking Underground structures.	Roll Size: 1 m x 15 m in 1.5 mm thickness (plain finish) and 1 m x 15 m in 2.1 mm thicknesses (with Geo-textile)
ECMASEAL HYDROSWELL 	Hydrophilic Swellable Rubber Strips for construction / cold joints in concrete.	Construction and cold joints in concrete, Pipe penetrations, Sewer systems, Subterranean prefabricated concrete elements.	20mmx 6mm, 20mmx10mm 25mm x 20mm sizes are available in packs of 100 RMT length
ECMASEAL BENTO-SWELL 	Bentonite based flexible Swell Strip for Concrete Construction Joints	Construction and cold joint in underground concrete structures, basements, foundations, pipe penetrations, etc.	20 mm x 10 mm, 20 mm x 20 mm; 25 mm x 20 mm sizes are available in packs of 100 RMT length
ECMASEAL PVC WATERSTOP 	Flexible PVC Water-stop to seal Concrete joints to act as a continuous watertight barrier to prevent seepage of water/ liquids	Construction and cold joint in underground concrete structures, basements, foundations, tunnel, water retaining structures, etc.	Available in 5 mm - 10 mm thickness, width 150 mm, 300 mm and length 20 RMT. Supplied in packs of 100 RMT length
ECMASEAL MULTI-INJECT 	Specially designed flexible, solid core, perforated, PVC injection tubes	Designed to be used as pre-installed grouting hose to treat leakages for concrete construction joints in below grade concrete structures	Available in 12 mm & 19 mm OD, supplied in packs of 100 RMT length along with accessories
ECMASEAL PU 1K 	Single Component Polyurethane Sealant	Specially Formulated, ready to use Polyurethane Sealant to seal movements and expansion joints in Concrete Structures and has good adhesion with many substrates	Depends upon size of joint; refer data sheet. package 600ml x 24
ECMASEAL PS 	Two Component, Polysulphide Sealant	Suitable to seal expansion joints in Concrete buildings, concrete floors, pavements, etc.	package 16 Kg (4 Kg x4 Nos.)
ECMASEAL MS 	Solventless and isocyanate free, single component, MS polymer based neutral sealant	Specially formulate MS Polymer sealant suitable to seal wet/ dry cracks, expansion joints in concrete or joints between two dissimilar materials	package 600 ml Sausage x 24 Nos.

WATERPROOFING PRODUCTS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAFLEX JOINT TAPE E 	Thermoplastic Elastomer based, UV Stable, Highly flexible Joint sealing tape for expansion joints and other gaps	Specially designed high performance waterproof tape to seal expansion joints and cracks subjected to higher thermal movements and water pressure.	Depends upon size of joint; refer data sheet. <div style="border: 1px solid black; padding: 5px; width: fit-content;"> package Available in Thickness 1 mm/ 2mm and Widths 150 mm, 200 mm, 250 mm & 300 mm and rolls of 20 meter length </div>
ECMAFLEX JOINT TAPE C 	Waterproof and flexible TPE Joint Sealing Tape with non-woven fabric	Sealing corner joints, construction joints in Bathroom, Kitchen, Balconies, Swimming Pools, etc.	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Roll Size 120 mm width x 50 M roll </div>
ECMAFLEX JOINT TAPE HDPE 	High Adhesion Double Sided HDPE Joint Tape	For sealing HDPE membrane overlap joints Basement Rafts, Foundations and Tunnels	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Roll Size 80 mm & 120 mm width x 50 M rolls </div>

READY TO USE WATERPROOF, BREATHABLE AND DRYING PLASTERS



WATERPROOF PLASTER -

100% waterproof, doesn't allow water penetration in heavy rains and can resist high hydrostatic water pressure

DRYING PLASTER -

sucks the dampness and moisture from the substrate and dries it out

BREATHABLE -

Vapor/ moisture permeable - moisture is not entrapped, it evaporates easily



WATERPROOFING PRODUCTS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAS HARD 	100% Waterproof, Breathable and De-humidifying, multipurpose plaster	Waterproofing of Brick & Concrete surfaces like Cellars/SUMPS/Tanks	2 Sqm/10 mm thickness Package 25 kg
ECMAS ROOF 	100% Waterproof, Breathable and De-humidifying Mortar for Waterproofing of flat concrete slabs	Waterproofing of Concrete surfaces like Sunken slabs, Wet Areas, Balconies/ Utility Areas	3.5 Sqm/ 10 mm thickness Package 25 kg
ECMAS CONPLUS 	100% Waterproof, Breathable and De-humidifying Plasters	Waterproofing of Concrete surfaces like Cellars/ SUMPS/ Water Retaining Structures like STP/ UG Tanks, etc.	3.5 Sqm/ 5 mm thickness Package 25 kg Bags
ECMAS CEMPLUS 	High Performance Waterproofing System for Concrete Structures from positive/negative sides	Waterproofing of Concrete surfaces like Cellars/ SUMPS/ Water Retaining Structures	4 Sqm/ 5 mm thickness Package 25 kg
ECMAS WALLPLUS 	General purpose Waterproof, Breathable and De-humidifying Plaster for walls	Plastering of Internal/ Exterior Concrete/ Brick Walls	2 Sqm/10 mm thickness Package 25 kg
ECMAS BLOCKPLUS 	100% Waterproof, Breathable and De-humidifying Plaster for Block masonry	Plastering of AAC Blocks/ Light weight Concrete Blocks above ground level (interior or exterior)	4 Sqm/ 5 mm thickness Package 25 kg
ECMASCREED LWD 	Light Weight, Waterproof, Thermal & Sound Insulation Screed	Waterproofing along with thermal insulation of roofs, waterproof and filler screed for sunken toilets/ balconies, etc.	22 Kg/Sqm/ 50 mm thickness when mixed polystyrene bead Package 25 kg bags
ECMAS HI-FINISH 	100% Waterproof, Breathable and De-humidifying, Fiber Reinforced, Extremely White Wall Putty	Skim Coat for Exterior/ Internal Plastered Walls/ Ceilings or Mivon Shuttering Concrete Walls	1 Kg / Sqm / mm thickness Package 25 kg & 40 kg Bags

REPAIR AND RESTORATION

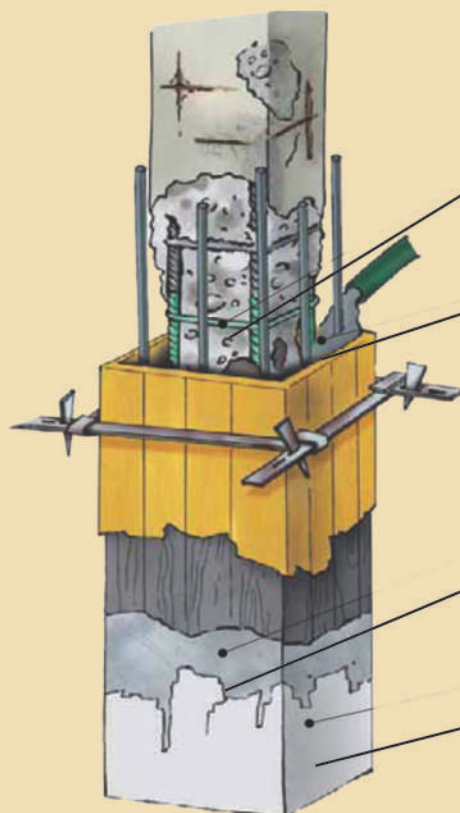


Thick Repairs - Reconstruction of the concrete cover



- 1 Preparation of the support for the reconstruction cycle by beating, removal of damaged parts, careful brushing of reinforcing bars, washing and wetting of existing concrete
- 1 **ECMAGUARD 403**
Two component, metallic Zinc Rich Protective Coating for exposed/ confined steel reinforcement bars
- 2 **Thixotropic mortar for structural repairs**
for reconstruction of the original reinforced concrete structure.
- 3 Smoothing layer
- 4 Protection and finishing
ECMAGUARD 555
Surface protection treatment and anticarbonation

Repair by pouring to increase of structure section



- 1 Preparation of the support for the reconstruction cycle by beating, removal of damaged parts, careful brushing of reinforcing bars, washing and wetting of existing concrete. Preparation of adequate formwork with new reinforcement inside.
- 1 **ECMAGUARD 403**
Two component, metallic Zinc Rich Protective Coating for exposed/ confined steel reinforcement bars
- 2 **Castable mortar for structural restoration**
to increase the reinforced concrete structure section
ECMAREP 501
Cementitious free flow, non-shrink Micro-Concrete.
ECMAREP 502
High Strength, Cementitious, Polymer mortar for Structural repairs
- 3 Smoothing layer
- 4 Protection and finishing
ECMAGUARD 555
Surface protection treatment and anticarbonation

REPAIR MORTARS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAREP 501 	Free flow, non-shrink, self levelling, high strength micro concrete	For strengthening & repairing of damaged RCC structures particularly where access is restricted due to confined/ congested reinforcements and where using vibrators not possible to compact the concrete	Yield = 13 L per 25 kg bag Package 25 kg
ECMAREP 502 	High Strength, Cementitious, fiber reinforced Polymer mortar for Structural repairs	For repairing of damaged/ spalled cover concrete in vertical and overhead applications, structural repairs of columns, beams, slabs, etc.	One bag of 25 kg powder covers 1.25 Sq.m at 10mm thickness Package 25 kg
ECMAREP 503 	High Strength Epoxy Repair Mortar (High early and ultimate strength, non- shrink and excellent adhesion to concrete, steel, etc.)	For Rehabilitation of Concrete structures like precast segments, structural elements like columns/ beams, etc., Speedy repair of industrial floors/ pavements	Package 21 kg Pack
ECMAREP 504 	Instant Plugging Mortar: Rapid setting, Minimises thermal cracking, Good early strength for plugging holes and water leakages. Excellent bonding capacity.	Used for Instant stopping of leakages, plugging of concrete segments, sewage systems, basements, under ground access chambers, foundations etc.	Package 25 kg Pack
ECMAREP 505 	Epoxy Putty: Three component, epoxy based fair facing epoxy mortar.	Used for Rectification of blow holes, Undulations, Cracks, Cavities on Vertical & Horizontal concrete Surface.	Approx 2.3 kgs / m ² per mm thickness Package 11 kg Pack
ECMAREP 507 	Micro-concrete with corrosion inhibitor.	Pre-packed Cementitious powder for Strengthening of structural elements in the repair of chloride contaminated concrete.	Yield = 13L Package 25 kg
ECMAREP 508 	Fiber reinforced Micro-concrete.	Pre-packed Cementitious powder for Strengthening of rc structural elements where thermal gradients are high.	Yield = 13L Package 25 kg
ECMAREP BORPAC 	Ready to use, high strength, cementitious borepacking mortar which requires only the site addition of clean water to produce free flow, non-shrink mortar	Bore packing/ sealing pipe penetrations (gaps between pipes and concrete core)	2000kg / M ³ Package 25 kg
ECMAREP PAVING 	Ready to use, High Strength, Fast setting, Fiber-reinforced, Concrete Pavement/ Floor Bed Repair Mortar	For repairs/ reinstatement of damaged industrial concrete floors/ pavements for thickness from 15 mm to 50 mm	17 kg / m ² / 10mm thickness Package 25 kg pack

ENGINEERING GROUTS

PRODUCT

DESCRIPTION

APPLICATION

DOSAGE/ CONSUMPTION

ECMAGROUT 301



Non-Shrink Free Flow, Cementitious Grout: Ready to use, addition of specified quality of water. Attains strength of M 50 grade. TO mix mechanically controlled expansion ensures cent percent surface contact area, chloride & iron free.

For Grouting Bolt pockets of steel and structural members, Machinery base plates, Bolt pockets for D.G sets, Generators, turbines Crane rails Compressors

2180 kg /m³ water :
Powder ratio 0.18

Package

25 kg

ECMAGROUT 302



Non-Shrink Free Flow, High Strength Cementitious Grout
Ready to use, addition of specified quality of water. Attains strength of M 70 grade. To mix Mechanically, controlled expansion ensure cent percent surface contact area chloride & iron free.

Used for Grouting heavy machine base plates, Bolt pockets for D.G. Sets Generators, Crane trails Compressors.

2210 kg /m³ water :
Powder ratio 0.17

Package

25 kg

ECMAGROUT 306



Epoxy Resin Based Grout
There component, system, good bond strength, high flowability, high chemical resistant, Solvent free and Non-shrink. Dynamic load resistant.

Used for grouting for the gap width between 15mm to 75mm. Free flow Grout where excellent free flow characteristics is required. Grouting of bridge bearing plates, machine bed plates, fixing bolts and anchors to fill cavities in concrete.

Density approx
2 Kg / Lit

Package

15 kgs

ECMAGROUT 307



Polyster Resin based Anchor Grout Rapid Strength gain, Corrosion resistant, Non-Expansive can also be applied under water, good consistency, Vibration Resistant.

Used for fixing of reinforcement foundation bolts. Anchoring of attachments to concrete rock etc. For Grouting bolt pockets of structural steel members. Rock bed anchors, crane rails fixing etc.

Density approx
2 Kg / Lit

Package

10 kgs (1x10)

INJECTION GROUTS

PRODUCT

DESCRIPTION

APPLICATION

DOSAGE/ CONSUMPTION

ECMAGROUT 304



Expansive Grout Additive For good quality flowable, Nonshrink Cementitious grout

Used for pressure Grouting with cement Slurry of Honeyconbed, porous concrete structures, duct & bed grouting of prestressed cable ducts.

250 gms / per
50 Kg cement

Package

10 kgs
(0.25x40)

ECMAGROUT 305



Low Viscous Epoxy Injection Grout
Two component, which yields in good bond strength, very high flowability. High chemical resistant. Solvent free epoxy resin system, Non-shrink









Used for injection grouting and for filling the base plates for grouting gap width less than 10mm. Used for grouting the cold joints, sealing damp & wet cracks, grouting liquid for adhesion of concrete.

Density approx
1.08 Kg/Lit

Package

10 kgs (2.5x4)

INJECTION GROUTS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
 <p>ECMAGROUT PU F 200</p>	Single component, Hydrophobic, solvent and phthalate free, water-reactive polyurethane foam injection system	Rapid sealing of leaking cracks in concrete structures as a temporary water stop	Package 5.5 kg (with accelerator)
 <p>ECMAGROUT PU F 220</p>	Single component, Hydrophilic, 100% MDI based, Solvent and Phthalate free, water-reactive Polyurethane foam injection producing a flexible foam or an elastic gel depending upon the amount of water	Preventative or remedial water proofing of structures, Seal off wet, moist and water containing structures, Consolidation of loose or unstable soil	Package 20 kg
 <p>ECMAGROUT PU F 240</p>	Two component (mixing ratio 1:1), low viscous, solvent and phthalate free polyurethane injection system to forming a rigid foam	Fast reacting, quick foaming injection for blocking high volume and pressure water leaks. Sealing and stabilizing of cracks & cavities in concrete, loose rock, mountain rocks etc.; soil stabilization	Package 22 kg Part A - 10 Kg & Part B - 12 Kg
 <p>ECMAGROUT PU F 260</p>	Two component, hydrophilic, 100% MDI based, solvent and phthalate free, polyurethane injection system which acts as an active water stop system by producing an elastic gel	Seal off wet, moist and water containing structures, Curtain grouting, Sealing voids /joints in masonry walls, Shutting off heavy water leakages, etc.	Package 20.9 kg Part A - 10 Kg & Part B - 10.9 Kg
 <p>ECMAGROUT PU R 420</p>	Two component, low viscous, solvent and phthalate free, polyurethane resin injection system for the permanent & elastic sealing of cracks in concrete structures	Sealing Cracks in Beams and slab columns, Water retaining structures, Sewage treatment plants, Substructure concrete constructions	Package 8 kg Part A - 5 Kg & Part B - 3 Kg
 <p>ECMAGROUT PU R 440</p>	Two component, low viscous, solvent and phthalate free, polyurethane resin injection system for the permanent & structural sealing of cracks in concrete structures	Sealing and stabilizing of cracks & cavities in concrete, loose rock, mountain rocks or similar constructions, Sealing of sheet pilings, diaphragm wall, beams, columns etc. Sealing joints in precast elements, concrete columns etc.	Package 11 kg Part A - 5 Kg & Part B - 6 Kg
 <p>ECMAGROUT PU M 620</p>	Two component, solvent and phthalate free, low viscosity, Dual Performance polyurethane injection system. It will form an elastic foam when water is present. If no water, it will form a permanent and flexible seal	Sealing leaking cracks to create a permanent sealing of the leaking or dry cracks with one material, Leaking construction joints, Water retaining structures, Sewage treatment plants, Substructure concrete constructions	Package 8 kg Part A - 5 Kg & Part B - 3 Kg
 <p>ECMAGROUT PU M 640</p>	Two component, solvent and phthalate free, low viscosity, Dual Performance polyurethane injection system. It will form a rigid foam when water is present. If no water, it will form a permanent and structural seal	Sealing and stabilizing of cracks & cavities in concrete, loose rock, mountain rocks or similar constructions, Sealing of sheet pilings, diaphragm wall, beams, columns etc., Soil stabilization	Package 11 kg Part A - 5 Kg & Part B - 6 Kg

INJECTION GROUTS

PRODUCT

DESCRIPTION

APPLICATION

DOSAGE/ CONSUMPTION

ECMAGROUT PU G 800



Single component, 100% MDI based, solvent and phthalate free, low viscosity, water-reactive, hydrophilic, polyurethane injection system which acts as an active water stop system by producing an elastic gel

Preventative or remedial water proofing of structures; Seal off wet, moist and water containing structures; Sewer and manhole repairs; Consolidation of loose or unstable soil

Package
20 kg

ECMAGROUT PU G 820



Two component, 100% MDI based, solvent and phthalate free, hydrophilic polyurethane injection system which acts as an active water stop system by producing an elastic gel

A liquid but solidifying gel membrane for curtain grouting, A vertical barrier to fill voids /joints in masonry walls, Remedial water proofing of concrete structures, Shutting off heavy water leakages, Repairing expansion joints, Seal off wet, moist and water containing structures, Consolidation of loose or unstable soil

Package
20.9 Kg
Part A - 10.9 Kg &
Part B - 10 Kg

ECMAGROUT PU G 840



Two component, 100% MDI based, solvent and phthalate free, hydrophilic polyurethane injection system with an extended gel time forming an elastomeric gel

A liquid but solidifying gel membrane for curtain grouting. Remedial water proofing of structures, To be used in injection hoses, Seal off wet, moist and water containing structures, Consolidation of loose or unstable soil

Package
20.9 Kg
Part A - 10.9 Kg &
Part B - 10 Kg

ECMAGROUT MA G 900



Two component, hydrophilic, solvent free, Methacrylate-based injection system for sealing and consolidation works in presence of water which acts as an active water stop system by producing an elastic gel.







Injection through Re-injectable grouting hoses, Injection of compartments in PVC membrane waterproofing system. Seal off ultra-fine cracks/ voids in wet, moist and water containing structures, Consolidation of loose or unstable soil in presence of water.

Package
24 Kg Kit (MA G 900
Resin - 20 Kg, Activator
A1 -3 Kgs &
Initiator I - 1 Kg)

PROTECTIVE COATING



PROTECTIVE COATINGS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAGUARD 401 	Solvent free, 100% solids, food grade, high build Epoxy Coating, anti-skid in finish, offers good chemical resistance	Seamless waterproof coating providing long term protection to steel and concrete structures like Potable Water storage tanks, Process water tanks, and steel tanks & pipelines, food & milk product processing units, etc.	6-8 Sqm/ Kg/ Coat 100-micron Package 5kg, 20kg
ECMAGUARD 402 	High Chemical Resistant, Epoxy Coating for Concrete and Steel structures. High build, fast drying, abrasion resistant, epoxy coating to provide long term protection to steel and concrete substrates against corrosion and resistance to water ingress	For Concrete and Steel tanks, Laboratories, Oil refining plants, Chemical plants, Swimming Pools etc. Can also be used as wall & floor coating.	4-6 m ² /Kg Coat for 100 micron Package 5kg, 20kg
ECMAGUARD 403 	Two component, metallic zinc and epoxy resins-based primer cum protective coating for protection of exposed/ confined steel reinforcement bars against corrosion	Protective cum priming coat on exposed steel reinforcement bars in concrete repair, steel pipelines, tanks, etc. in refineries, power plants, fertilizer industries, etc.	5-7 m ² /Kg Coat for 35-40 micron Package 5kg, 15kg Part A - 4 Kg & Part B - 1 Kg
ECMAGUARD 407 	Two component, cold cure, high build, Coal Tar Epoxy based anticorrosive & protective coating for concrete and steel structures	Steel Pipes and structures, Concrete Structure, Marine Piling, Sewerage & Effluent Treatment Plants, Chemical processing, Sea-water tanks, channels and intakes and Waste processing equipment setup, etc.	3-4 m ² /Kg for 200 micron DFT Package 20 kg
ECMAGUARD PROOFCOAT 	Pure Acrylic, elastomeric, high build, Eco-friendly, weather resistant, exposure grade waterproofing coating	Waterproofing of old and new Flat or Sloped Roofs, Metal/ Concrete Roofs/Asbestos/ Cement Roofing Sheets	0.6 Sqm/ Kg in 2 coats Package 20 kg
ECMAGUARD THERMOCOAT 	Pure acrylic, elastomeric, Eco- friendly, Energy Efficient. Solar Heat Reflective coating for roof and exterior walls	Old and new flat or sloped Roofs, Metal/ Concrete Roofs, Exterior walls of Residential, Commercial or Industrial Buildings, etc.	4-6 Sqm/ Kg/ Coat Package 20 kg
ECMAGUARD 555 	Single component, Acrylic Polymer based, UV stable, weather resistant, Anti-Carbonation and Protective Coating having good water vapor permeability but highly resistant to the ingress of chloride ions and diffusion of carbon dioxide & harmful gases.	For protection of Bridges, flyovers, elevated Road/ Metro structures, Tunnels, Underpasses, Car Parking's, Buildings & structures in coastal and high Pollution & Rainfall zones, etc. against carbonation and weathering	4-6 Sqm/ Kg/ coat Package 20 kg



PRIMERS



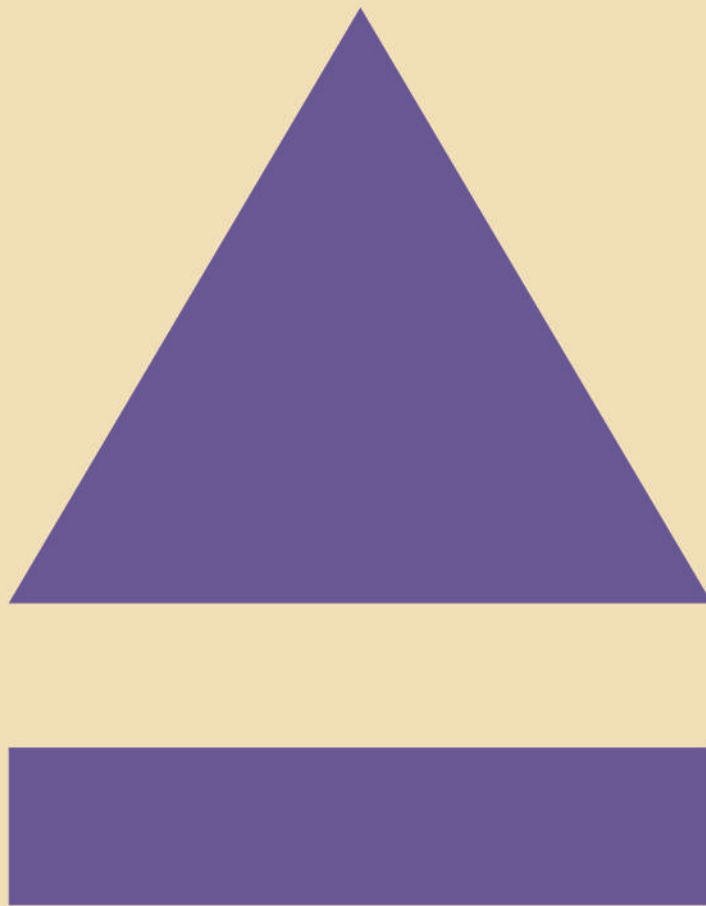
PRIMERS AND ADHESIVES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAPRIME ACRY 	Single component Acrylic primer liquid applied waterproofing and bonding agent.	Used as a primer for general purpose for coatings and screed products.	5 - 6 m ² / kg / single coat <div style="border: 1px solid black; padding: 5px; text-align: center;"> Package 20 kg </div>
ECMAPRIME EI 	Two component, low viscous, solvent based epoxy impregnator/primer having good penetration properties in concrete & cementitious substrates	For priming concrete surfaces & steel substrates prior to application ECMACOAT FLEX PU 40, ECMACOAT FLEX PU 60-2K, ECMACOAT FLEX PUR 10, ECMACOAT FLEX PUR 20 etc.	5-6 m ² /Kg/Coat depending upon substrate <div style="border: 1px solid black; padding: 5px; text-align: center;"> Package 20 kg </div>
ECMAPRIME PU 	Single component low viscous moisture cured with high quality polyurethane base adhesive for concrete surfaces and structures as a Priming membrane.	For priming concrete surfaces prior to application ECMACOAT FLEX PU 40, ECMACOAT FLEX PU 60-2K, ECMACOAT FLEX PUR 10, ECMACOAT FLEX PUR 20 etc.	5-6 m ² / kg / One Coat <div style="border: 1px solid black; padding: 5px; text-align: center;"> Package 20 kg </div>
ECMAPRIME BITU 	Single component, solvent based bituminous primer for adhesion of bituminous sheet membranes and various substrates	Used as a primer on steel, masonry & concrete substrates to promote adhesion with cold applied, self-adhering Bitumen/ SBS waterproofing sheet membranes and torch applied bitumen waterproofing sheet membranes	3-4 Sqm / Kg / Coat <div style="border: 1px solid black; padding: 5px; text-align: center;"> Package 18 kg </div>
ECMAPRIME EP 	Two component, low viscous, solvent based, general purpose epoxy primer having excellent surface penetration & sealing for Concrete and Steel Structures	Suitable for priming concrete surfaces prior to the application of ECMASCREED/ ECMAFLOOR range/ ECMAGUARD Epoxy Coatings, etc.	5-7 m ² /Kg/Coat depending upon substrate <div style="border: 1px solid black; padding: 5px; text-align: center;"> Package 3 kg </div>
ECMAPRIME EP - SF 	Two component, low viscous, solvent free, general purpose sealer coat cum epoxy primer specially designed for epoxy floor & wall coatings, self levelling epoxy floorings and epoxy floor screeds & mortars, providing corrosion protection & improved adhesion with variety of substrates like concrete, metal, etc.	It has good penetrating properties and is suitable for priming concrete & metal surfaces prior to the application of ECMASCREED/ ECMAFLOOR range/ ECMAGUARD Epoxy Coatings, etc.	5-6 m ² /Kg/Coat depending upon substrate <div style="border: 1px solid black; padding: 5px; text-align: center;"> Package 3 kg </div>

PRIMERS AND ADHESIVES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMABOND 510 	SBR Latex based Multi-purpose Mortar Modifier and Bonding Agent to improve bonding properties and strength, compatible with all kind of hydraulic cements	ECMABOND 510 can be mixed with cement slurry, mortar, concrete or grout in recommended dosages to enhance bonding and strength characteristics of cementitious compositions such as new to old concrete/plasters, concrete repair mortars, floor toppings	4-6 m ² /Kg/Coat depending upon mixing ratio and substrate <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Package 20 kg </div>
ECMABOND 511 	Acrylic emulsion-based Multi-purpose Mortar Modifier and Bonding Agent to improve bonding properties and strength, compatible with all kind of hydraulic cements and suitable for exposed applications as well	ECMABOND 511 is recommended as primer for ECMAS cementitious repair systems. For improving bonding of floor toppings, renders and mortars, repair of worn, damaged or spalled concrete; polymer modified floor screeds.	6-7 m ² /Kg/Coat depending upon mixing ratio and substrate <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Package 20 kg </div>
ECMABOND 512 	Epoxy resin based, solvent free, two component bonding adhesive	Suitable for bonding of structural concrete new to old concrete, as bonding agent for bricks and steel components due to its excellent bonding properties to freshly mixed concrete/mortars, glazed bricks, tiles, etc. Structural concrete repairs to buildings, bridges, tunnels, roads or floor toppings, etc.	2-3 m ² /Kg/Coat depending upon substrate <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Package 3 kg </div>
ECMABOND 520 	Solvent Free Thixotropic Epoxy Adhesive	General purpose adhesive for most building materials including steel and concrete surface in aggressive environments. Specially designed for adhering ECMAFLEX JOINT TAPES, Water stoppers, rubberized/ EPDM based membranes, bonding Steel to concrete, filling cracks in concrete, etc	1.5-2.0 Kg/ Sqm depending upon substrate and usage <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Package 3 kg & 6 kg </div>

STRUCTURAL REINFORCEMENT



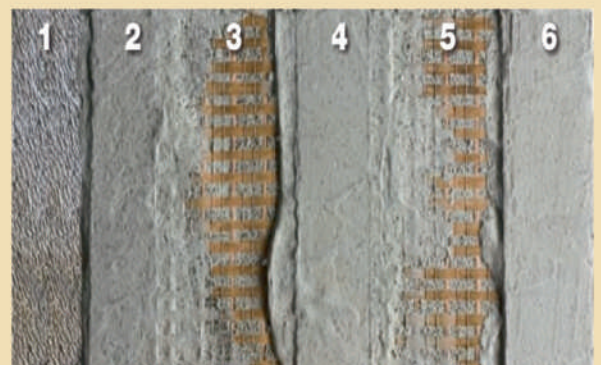
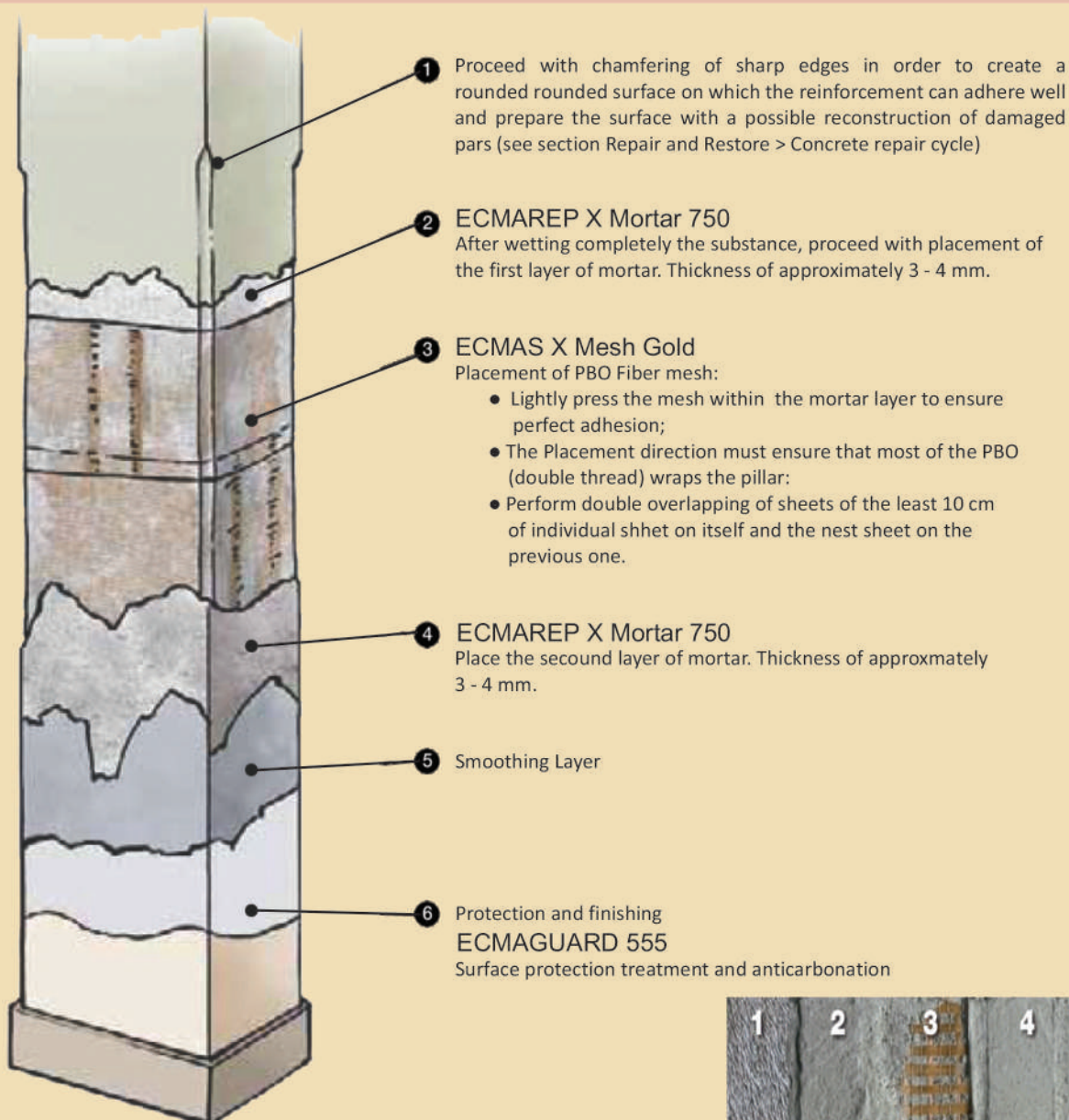
STRUCTURAL REINFORCEMENT

The advantages of the system

- PBO fiber mesh **for FRCM structural reinforcements**
- no need to use **epoxy resin**
- resistant **to high temperatures**
- reinforcement of **low thickness** structures
- breathable **and non-combustible**
- compliant with **DT 200 R1/2013, NTC 2008**



FRCM: Reinforcement of Concrete Structures with PBO Fibers



STRUCTURAL REINFORCEMENT

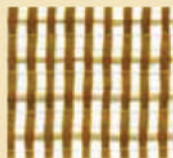
PRODUCT

DESCRIPTION

APPLICATION

DOSAGE/ CONSUMPTION

ECMAS X MESH GOLD



Next generation, high performance, composite structural reinforcement based on special PBO Mesh for reinforced concrete and pre-compressed reinforced concrete structures including those subjected to simultaneous action of Fire and High temperatures. An innovative composite reinforcement systems that do not rely on epoxy resins

For reinforced concrete and pre-compressed reinforced concrete structures for Flex reinforcement, Shear strength, Torsion reinforcement, Confinement of beam/ columns structural reinforcement specially in public facilities (schools, hospitals, community facilities), infrastructures (bridges, viaducts, railway and motorway piers) and wherever heat and/or fire resistance is required along with an easy and economical application.

Package
15 m² rolls
(length 15m and height 1m)

ECMAREP X MORTAR 750



Special ready-to-use mono component cementitious mortar based on stabilized inorganic matrix to be used along with ECMAS X MESH GOLD

The special mortar specially formulated to acts as the matrix of the system, joining the high performance P.B.O. fibres to the substrate of the concrete structure without requiring any inter-phase (primer, resin, etc.) with the surfaces (fibre and substrate)

1.4 Kg/ Sqm/ 1 mm.
Apply in 3-4 mm thickness

Package
25 kg

ECMAS X MESH C 10



ECMAS X MESH C10 is a structural reinforcement system consisting of a bidirectional carbon fiber mesh that does not use epoxy resin but a matrix consisting of a pozzolanic hydraulic binder perfectly compatible with the masonry substrate.

ECMAS MESH C10 is used for reinforcement of masonry structures, including those subject to fire or high temperatures for Static reinforcement; Seismic improvement; Seismic retrofitting; Replacement of traditional reinforced slabs, performed with glass or welded steel mesh.

Package
15 m² rolls
(length 15m and height 1m)

ECMAREP X MORTAR 25

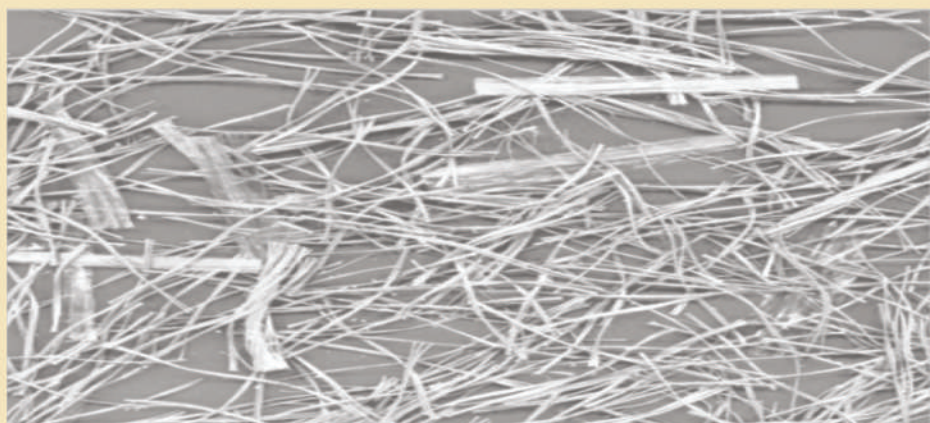


Special ready-to-use mono component cementitious mortar based on stabilized inorganic matrix to be used along with ECMAS X MESH C10

The special mortar specially formulated to acts as the matrix of the system, joining the carbon mesh to the substrate of the concrete structure without requiring any inter-phase (primer, resin, etc.) with the surfaces (fibre and substrate)

1.2 Kg/ Sqm/ 1 mm.
Apply in about 3 mm thickness

Package
25 kg



REINFORCE CONCRETE WITH FIBERS

FIBRE REINFORCED CONCRETE

Comparison between fibers



Metallic reinforcements (Steel wires meshes/ Reinforcement Bars) do not have any structural function in most floors and pavements, since they neither increase the bearing capacity nor distribute the load to which floors are subjected. Metallic reinforcements are only useful in relation with thermo-hygrometric consequences (cracking, curling, etc.). In fact, they are seldom used in the design of floors to intervene after floor cracking

These functions (shrinkage compensation and post-cracking behaviour) can be efficiently compensated with the use of the hybrid synthetic structural fiber EXF 54. These macro-fibers offer high mechanical performance as well as a considerable reduction of both financial and human resources “

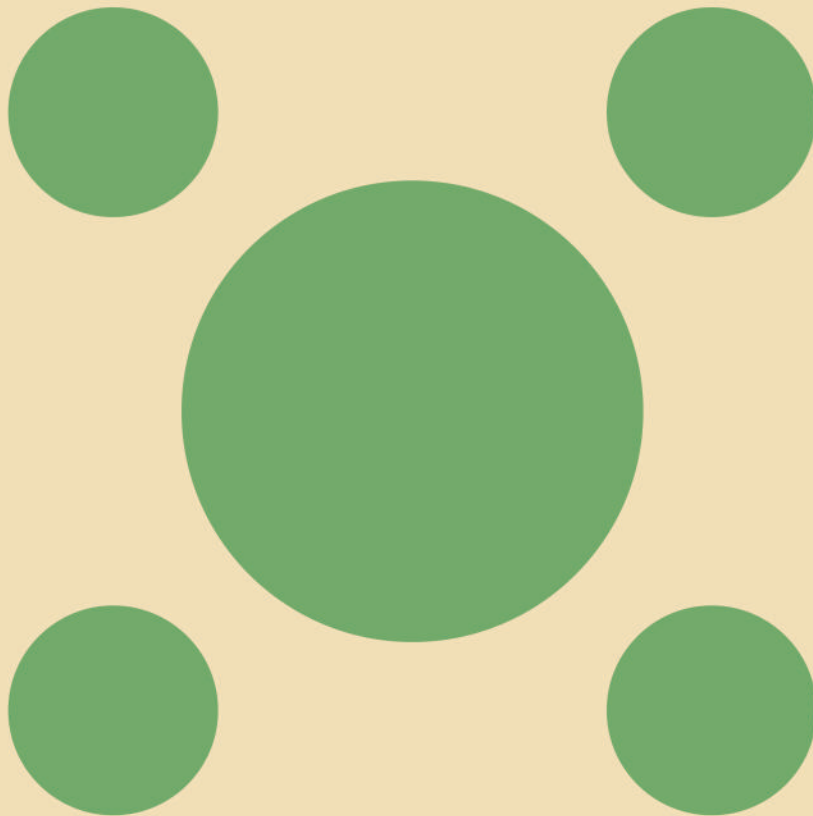


The advantages

- **Reduces or entirely eliminates plastic shrinkage.**
- **Increase durability, ductility, flexural strength, impact and fatigue resistance of concrete.**
- **No corrosion, is not magnetic.**
- **Chemically inert**
- **Doesn't change concrete ability to be pumped**
- **Perfect homogenisation on concrete**
- **Easy to use – addition of fibers doesn't require any change mix design of the concrete**

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAS X FIBER 54 	Hybrid polymeric macro-fibres composed of a Polyolefin fibre with structural functions and a fibrillated Polypropylene macro-fibre to produce high performance fiber reinforced concrete with reduced concrete plastic shrinkage, improved durability and mechanical properties of concrete	Industrial and residential floors (indoor and outdoor), warehouses, steel deck slabs, parking lots, workshops, service stations, concrete pavements, harbour (port) floors, foundations slabs, etc.	1.0-3.0 Kg/ Cum depending on the usage, expected load, etc. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> Package Box of 16 Kg (2 Kg x 8 Nos.) </div>
ECMAS X FIBER 54 S 	Structural synthetic macro-fiber designed to reinforce sprayed concrete. EXF 54 S consists of a non fibrillated monofilament containing a special blend of polyolefin polymers capable of increasing the ductility of concrete and reducing (or even totally eliminating) its plastic shrinkage.	Fiber-reinforced sprayed concrete for coverings; Fiber-reinforced sprayed concrete for durable, fire-resistant final coverings in tunnels; Manufacture of prefabricated blocks for final coverings in tunnels	Appx. 3 to 5 kg/ m ³ Depend on the desired performance of the sprayed concrete <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> Package Boxes with 8 bags of 2kg </div>

SOIL STABILIZATION



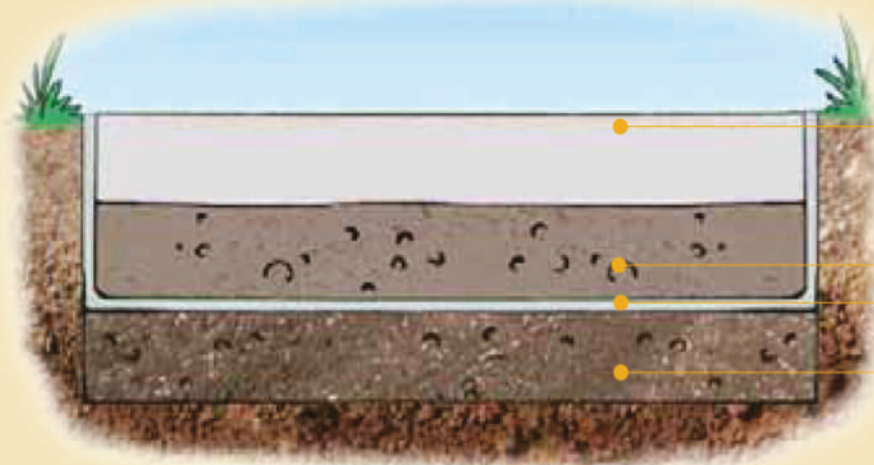
SOIL STABILIZATION

ECMASTAB 99

ECMASTAB 99 is a ground stabilizing and consolidating product which is worth being considered by constructors of pedestrian and bike tracks, dirt roads, nature trails within protected areas, with a special focus on the future.

ECMASTAB 99 Uses soil moisture, primarily responsible for the loss of the mechanical characteristics of a transit area, due to the hydration of the oxides of which it is composed. The ensuing reaction generates insoluble hydrates, which are distributed in the micropores of the ground, reducing its porosity, limit ground swelling and increase its firmness. Through this system, ground plasticity decreases, the mechanical properties improve, with a considerable increase of the bearing capacity (CBR), and durability to wear increases, as well as the resistance to frost/thaw cycles.

- **Low-cost:** **ECMASTAB 99** allows restoring and enhancing poor quality materials available in the construction site which would otherwise not meet the technical specification requirements.
- **Environmentally friendly:** **ECMASTAB 99** greatly reduces transport of material from borrow pits to landfills, for the smallest environmental impact.
- **Eco-compatible:** the composition is very similar to the physical-chemical properties of the soil on which it acts, incomparably better than traditional consolidation with the use of concrete or asphalt.



Ecological pavement **ECMASTAB 99**
(recommended average thickness 10 cm).

Sub-base made of granular mixture
(thickness to be sized according the final
destination of the work and the type of
substrate available).

Non-woven fabric (recommended).

Natural soil rolled on site.

ECMASTAB 99 : the most advanced and advantageous stabilizing solution

- cycle paths
- dirt roads
- rural roads
- nature trails
- roads in protected areas

PRODUCT

DESCRIPTION

APPLICATION

DOSAGE/ CONSUMPTION

ECMASTAB 99



Natural soil stabilizer with selected inorganic oxides and inert polymeric fiber. Improves soil physical and mechanical characteristics, ecological and eco-compatible

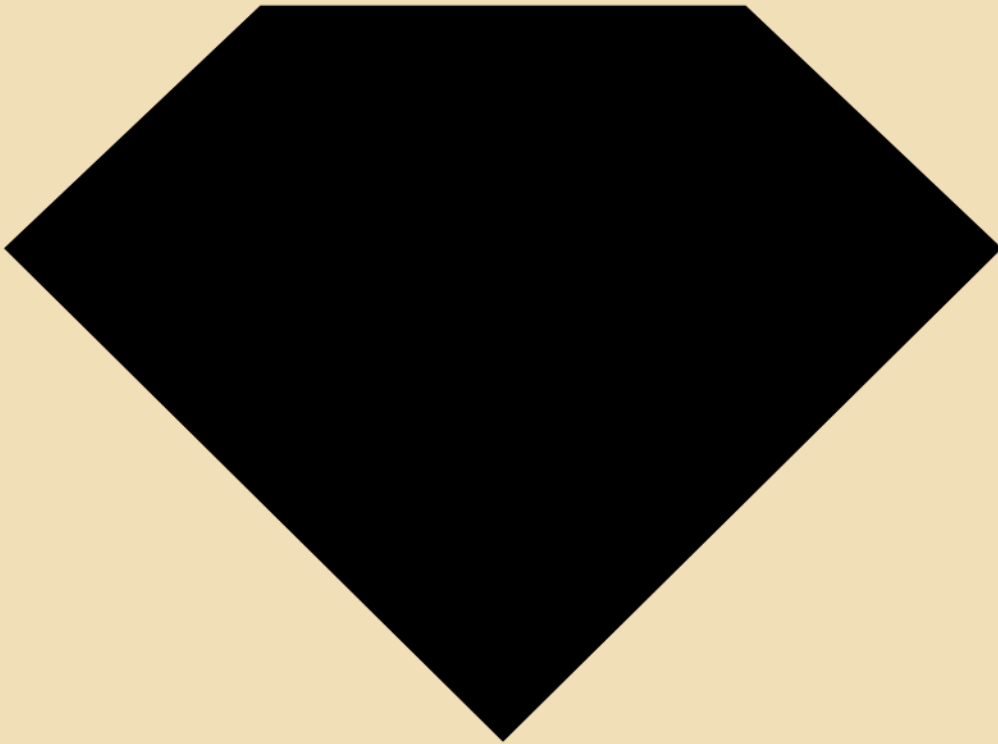
Particularly suitable for soil stabilization construction of pavement with high ecological integration in the environment, for bike trails, rural roads, and roads in protected areas.

2.5-4 Kg/ Sqm/ 10 cm

Package

25 kg bag

FLOORING



ECMAS FLOORING SOLUTIONS

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
ECMAFLOOR ESL 411 	Solvent free, Pigmented, 1 mm thick, epoxy self leveling floor topping system with high chemical and abrasion resistance properties. It provide a seamless glossy floor which is dust free, Hygienic, Easy to lay, Hard wearing chemical resistant system. Available in wide range of attractive colours according to RAL	Used for floor where high degree of hygiene & cleanliness is required. Used for floorings in laboratories, hospitals, computerised clean rooms, pharmaceutical industries & light industrial plants. bottling plants, beverage industrial, electronic industries, meat processing area, diaries.	1.6 kg/mm/m ² Package 16 kg Kit
ECMAFLOOR ESL 412 	Solvent free, Pigmented, 2 mm thick, epoxy self leveling floor topping system with high chemical and abrasion resistance properties. It provide a seamless semi-glossy floor which is dust free, Hygienic, Easy to lay, Hard wearing chemical resistant system. Available in wide range of attractive colours according to RAL	Used for floors like dairies, breweries, oil refineries, workshops, battery rooms, sugar & food industries. Ideally suited for heavy engineering plants.	3.0 - 3.2 kg/m ² depending upon surface leveling Package 18 kg Kit
ECMAFLOOR ESL 413 	Solvent free, Pigmented, 3 mm thick, epoxy self leveling floor topping system with high chemical and abrasion resistance properties. It provide a seamless semi-glossy floor which is dust free, Hygienic, Easy to lay, Hard wearing chemical resistant system. Available in wide range of attractive colours according to RAL	Used for floors like dairies, breweries, oil refineries, workshops, battery rooms, sugar & food industries. Ideally suited for heavy engineering plants, botting plants, power plants, steel plants, etc.	4.8 - 5.0 kg/m ² depending upon surface leveling Package 21 kg kit
ECMASCREED 414 	Solvent Free, self levelling screed system for 2mm. Three component system which provide a seamless floor which id dust free, easy to lay, Hard wearing chemical resistance system.	Used as heavy duty base for the application of ECMAFLOOR 411, 412 & 413 in wide range of industries with medium to light vehicular traffic like forklift, trolley etc. for all kinds of industries like Power Plants, Pharmaceutical plants, battery rooms, sugar & food industries. Ideally suited for heavy engineering plants, botting plants, power plants, steel plants, etc.	3.5 - 4.0 kg/m ² / 2 mm Package 18 kg
ECMASCREED 415 	Cementitious Self Levelling Compound consisting of sand/cement high quality synthetic resins, special cement and selected fillers. When mixed with water, it produces a free flow mortar with self levelling properties. It is specially designed for indoor applications to produce a smooth flat surface when applied to hard, rigid sub-floors. Not suitable for outdoor applications	Generally used in 3-10 mm thicknesses for levelling and smoothing of internal, uneven sub-floors like Concrete, screed and tiles prior to installtion of Vinyl flooring, Wooden flooring, carpets or other costlier finishes.	Package 25 Kg Bag Approx. 5 Sqm @ 3 mm thickness
ECMASCREED 416 	Cementitious self leveling compound designed for external and internal applications resisting the effects of sun, rain, cold and even thaw conditions. It requires the addition of only water to achieve a highly fluid consistency producing a smooth, level and hard surface.	ECMASCREED 416 is generally used in 5-20 mm thicknesses to finish & repair Concrete surfaces, levelling of Industrial floors and new construction floors, Underlayment floors.	Package 25 Kg Bag Approx. 5-6 Sqm @ 3 mm thickness
ECMAFLOOR 431 	Non-Metallic, Dry Shake Concrete Surface Hardener designed to improve abrasion and wear resistant properties of concrete floors & pavements. When applied on green concrete, it cures monolithically to provide a tough, dense, non-porous surface which is extremely hard wearing and abrasion resistant. It does not rust or stain even when used in wet conditions.	Suitable all types of concrete floors, which are subjected to heavy traffic movement. It can withstand the impact load due to movement of heavy load over the floor topping. It is specially recommended in heavy engineering industries, power plants, loading bays, trucking lanes, car parking, workshops, machine shops, ramps and spillways.	Light Duty 3.0 - 3.5 Kg/Sqm Moderate Duty 4.0 - 5.0 Kg/Sqm Heavy Duty 6.0 - 8.0 Kg/Sqm Package 25 kg



AQUALAMINE **EASY LAST 90**
WHEN GOOD LOOKS MEAN WATERPROOFING

Waterproofing

3 RESIN COATING
EASY LAST COAT
 TWO-COMPONENT TRANSPARENT FINISH
 +
LAMINE
 SINTO-CERAMIC PARTICLES
 +
EASY LAST COAT
 TWO-COMPONENT COLOUR FINISH

2 WATERPROOFING
EASY LAST 90
 SINGLE-COMPONENT SELF-LEVELLING
 WATERPROOFING

1 SEALING
BETONSEAL MS 2.0
 WATERPROOFING ADHESIVE SEALANT
 +
PRIMER
FONDO IGRO
 SOLVENT-BASED SINGLE-COMPONENT PRIMER

PREPARATION OF THE PRIMER

TERRACE FINISH WITH RESIN

BETON COLOR
 BI-COMPONENT ELASTOMER FINISH

PRODUCT RANGE

TERRACE FINISH WITH RESIN

BETON COLOR
 BI-COMPONENT ELASTOMER FINISH

Waterproofing with BETONGUANA

WATERPROOFING
 SEALING
 PREPARATION OF THE PRIMER

TECHNICAL SPECIFICATIONS

- Waterproofing
- Breathable
- Flexible
- UV resistant
- Frost resistant
- Applicable even at low temperatures
- Fast-curing
- Can be walked on

FIELDS OF APPLICATION

- Roofs
- Terraces
- Balconies
- Other wet spots
- Perimeter walls
- Pavements

BETON COLOR is the solution for achieving a beautiful terrace with a colour that matches the rest of the home.

BETON COLOR is available on request in a vast range of colours.

NATURAL
 SURFACES IN CEMENT WITH
 A POLISHED PLASTER EFFECT FOR
 FLOORS, WALLS AND FURNITURE

PRODUCT RANGE

2 DECORATIVE RESINS
NATURAL COAT
 PROTECTIVE FINISH IN THE NATURAL system,
 available in gloss finish (NATURAL COAT LUX)
 and matt finish (NATURAL COAT MAT)
 +
NATURAL COAT PRIMER
 WATERPROOFING PRIMER
 +
NATURAL TOP
 COLOURED TRI-COMPONENT SKIM COAT
 WITH A FINE TEXTURE
 +
NATURAL BOND
 COLOURED TRI-COMPONENT SKIM COAT WITH A
 COARSE TEXTURE (two coats)




1 PRIMER
NATURAL BASE
 MONO-COMPONENT PASTE PRIMER FOR CEMENT
 SUPPORTS AND PANELS
 OR
NATURAL BASE QUARTZ
 MONO-COMPONENT PASTE PRIMER FOR TILES

PREPARATION OF THE PRIMER

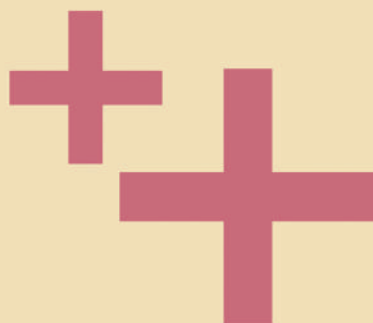
DESIGNER SURFACES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION		
Natural Base 	<p>NATURAL BASE is high-adhesion single-component primer. It is comprised of an aqueous dispersion of hybrid copolymers and a mixture of sands with selected grain sizes. It comes in the form of a soft paste that is easy to apply and ready to use.</p>	<p>As a smoothing, anchoring primer on floors and wall such as: screed and solid and dust free concrete floors (pre-treat with dilute SW SOLID if required); wood, Plasterboard, polymer-cement and silicate panels; painted metal; walls that have already been painted following diamond wheel polishing</p>	<p>0.6kg / sqm</p> <table border="1"> <tr><td>Package</td></tr> <tr><td>20 kg</td></tr> </table>	Package	20 kg
Package					
20 kg					
Natural Base Quartz 	<p>Base Quartz is a Two Component product infused with fine quartz sand used as a primer.</p>	<p>Base Quartz a two component product with quartz sand infuses in resin based primer with a hardner as a second component, applied with a steel trowel.</p>	<p>0.6 - 0.8 kg / sqm 2.1 kg / sqm for stairs</p> <table border="1"> <tr><td>Package</td></tr> <tr><td>14 kg</td></tr> </table>	Package	14 kg
Package					
14 kg					
Natural Bond 	<p>NATURAL BOND is a three component product made up of: Component A: aqueous dispersion of liquid epoxy pre-polymers, additives and special fillers. Component B: Aqueous dispersion of copolymerisation polyamines and additives. Component C: cementitious powder and silica-quartz sands.</p>	<p>NATURAL BOND is specifically designed to realize the bottom layer with a Venetian Plaster Effect in the NATURAL range. NATURAL BOND shall be used on surface previously treated with primer</p>	<p>1.2 kg / sqm (2 Coats)</p> <table border="1"> <tr><td>Package</td></tr> <tr><td>11.78 kg</td></tr> </table>	Package	11.78 kg
Package					
11.78 kg					
Natural Top 	<p>NATURAL TOP is a three component product made up of : Component A: aqueous dispersion of liquid epoxy pre-polymers, additives and special fillers. Component B: aqueous dispersion of copolymerisation polyamines and additives, Component C: cementitious powder and silica-quartz sands.</p>	<p>An intermediate and finishing layer for polished plaster coating in polymer-cement for private and commercial building, ● NATURAL TOP is a product specifically designed for creating with a polished plaster effect in the NATURAL range.</p>	<p>0.2 kg / sqm (2 Coats)</p> <table border="1"> <tr><td>Package</td></tr> <tr><td>2.16 kg</td></tr> </table>	Package	2.16 kg
Package					
2.16 kg					
Natural Coat Primer 	<p>NATURAL COAT PRIMER is a product comprised of a water-based solution of liquid pre-polymers, special active ingredients and additives. ● When applied to absorbent surface such as polymer-cement polished plaster coating it is able to penetrate the surface and make it waterproof.</p>	<p>NATURAL COAT PRIMER can be used as a waterproofing and consolidating primer for coating in the natural range.</p>	<p>0.12 kg / sqm</p> <table border="1"> <tr><td>Package</td></tr> <tr><td>20 L</td></tr> </table>	Package	20 L
Package					
20 L					
Natural Coat Lux 	<p>NATURAL COAT LUX is a water-based bi-component aliphatic finish to be mixed at the time of use. it creates a glossy and transparent final protective layer for polished plaster surface in the NATURAL range.</p>	<p>NATURAL COAT LUX can be used as finishing and protective coating in the following instances: ● on finishing layers of cement or epoxy-cement rendering, on floor or on walls: ● on floors made of concrete or cementitious screed.</p>	<p>0.1 kg / sqm</p> <table border="1"> <tr><td>Package</td></tr> <tr><td>4.5 L</td></tr> </table>	Package	4.5 L
Package					
4.5 L					
Natural Coat Mat 	<p>Natural COAT MAT is a water-based bi-component aliphatic finish to be mixed at the time of use. It creates a glossy and transparent final protective layer for polished plaster surfaces in the NATURAL range.</p>	<p>NATURAL COAT MT can be used as finishing and protective coating in the following instances: ● on finishing layers of cement or epoxy-cement rendering, on floors or on walls ● on floors made of concrete or cementitious screed.</p>	<p>0.08 kg / sqm</p> <table border="1"> <tr><td>Package</td></tr> <tr><td>5 kg</td></tr> </table>	Package	5 kg
Package					
5 kg					

DESIGNER SURFACES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION		
Easy Last Colour Coat 	<p>EASY-Last Coat the ideal solution for the aesthetic and functional finishing of EASY-LAST 90. EASY-LAST COAT features: Perfect adhesion to the coating, without any need to prepare the surface. Light and UV resistance (non-yellowing).</p>	<p>EASY-LAST COAT is the ideal solution for the aesthetic and functional finishing of Aqualamine</p>	<p>0.28 - 0.30 kg /m²</p> <table border="1"> <tr> <td>Package</td> </tr> <tr> <td>10 kg</td> </tr> </table>	Package	10 kg
Package					
10 kg					
Lamine Particles 	<p>Lamine Particles are chips (paillettes) of a wide variety of geometrical shapes made of plastic, used both to create aesthetic finishes and to get nice colour effects. The product is available in different colour and shapes mixtures.</p>	<p>Lamine Particles available in 1mm and 3mm, area sprinkled by hand to create a mosaic like effect.</p>	<p>700 grms /m²</p> <table border="1"> <tr> <td>Package</td> </tr> <tr> <td>3.5 kg</td> </tr> </table>	Package	3.5 kg
Package					
3.5 kg					
Easy Last Transparent Coat 	<p>EASY-LAST COAT is a solvent-based coloured non-yellowing bi-component polyurethane finish specifically designed for finishing, both aesthetically and technically, EASY-LAST 90. EASY-LAST COAT features: Perfect adhesion to the coating, without any need to prepare the surface. Light and UV resistance (non-yellowing). Resistance to stagnant water.</p>	<p>EASY-LAST COAT is the ideal solution for the aesthetic and functional finishing of Aqualamine</p>	<p>0.12 - 0.16 kg /m²</p> <table border="1"> <tr> <td>Package</td> </tr> <tr> <td>9 kg</td> </tr> </table>	Package	9 kg
Package					
9 kg					

CEMENT ADDITIVES



CEMENT ADDITIVES

PRODUCT	DESCRIPTION	APPLICATION	DOSAGE/ CONSUMPTION
EGA/S 	<p>The EGA/S additives improve the cement mortar strength at all ages due to specifically added constituents, with a complementary grinding aid function. The series exerts a catalysing / retarding function on cement hydration at different stages. They are recommended for all type of cements (OPC,PPC,PSC..etc)</p>	ALL Cements	0.02% to 0.04% by weight of cement Package 250 kg
EGA/P 	<p>The additives of EGA/P Exert a dry dispersing action along with the same grinding fineness, an increasing of mill production with a consequent reduction in specific energy consumption. A more compact granulometry is also obtained, which allows the development of high mechanical strength. They additionally improve dry fluidity in silos, transport ducts, etc</p>	ALL Cements	0.02% to 0.04% by weight of cement Package 250 kg
EGA/R 	<p>The EGA/R additives allow increased production of kiln feed by increasing Raw Meal Productivity. It increases the fineness thereby enhancing the quality of kiln feed and in turn enhancing the clinker quality. Specific [power consumption would also reduce considerably.</p>	Cements Raw Materials	0.02% to 0.04% by weight of cement Package 250 kg
EGA/L 	<p>The EGA/L Additives are specific grinding grinding aids for calcium carbonate(limestone) and other types of minerals. They exert a dry dispersing action allowing an increase on mill production and greater dry fluidity. The range does not alter the dielectric constant of Lime stone</p>	Limestone and Minerals	0.08% to 0.12% by weight of cement Package 250 kg

BOLANILETM
INFRATECH PRIVATE LIMITED



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