

[Handwritten signature and notes in Arabic]

SOLVENT FREE EPOXY PRIMER

DESCRIPTION

Oxibond 4750® is a transparent, rigid, two component epoxy, solvent-free primer that cures by reaction (cross linking) of the two components.

RECOMMENDED FOR

Oxibond 4750® is mainly used as a primer for polyurethane coatings on surfaces such as concrete, metal, wood or asphalt.

KEY FEATURES

- Transparent
- Simple application
- Solvent-free
- Resistant to water
- Provides high-tensile and impact strength
- Provides strong vapor barrier properties

PHYSICAL PROPERTIES

Composition	Epoxy Resin + Hardener
Mixing Ratio	A:B = 100:50 by weight
Adhesion to concrete	>2,2 N/mm ² according to ASTM D 903
Service Temperature	12 °C to 35 °C
Tack Free Time	6 hours; Conditions: 20°C C, 50% RH
Light Pedestrian Traffic Time	12 hours; Conditions: 20°C C, 50% RH
Spreading Rate	250 - 300 g/m ² applied in 1 layer, depending on surface porosity, temperature and application method.
Solids Content	100%
Resistance to Water Pressure	No Leak according to DIN EN 1928, Test A
Curing	7 days; Conditions: 20°C, 50% RH
Pot Life	40 minutes

SURFACE PREPARATION

Careful surface preparation is essential for optimum finish and durability. The surface needs to be grinded with a stone- or a diamond-grinding machine. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed. Clean cracks and hairline cracks, of dust, residue or other contamination. Fill all cracks or holes with suitable putty. The next day smoothen the putty surface with sandpaper or a mechanical grinder.

WARNING: Do not wash surface with water!

APPLICATION

Mix **OXIBOND 4750®** Component A and Component B by low speed mechanical stirrer, according to the stipulated mixing ratio, for about 3-5 min. The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Apply the mixture by roller or brush, until the surface to be primed, is covered. After 12 hours (not later than 18 hours) and while the primer is still a bit soft, apply the polyurethane coating.

SOLVENT FREE EPOXY PRIMER

APPLICATION CONDITIONS

Do not apply at temperatures below 10 °C or when rain is expected. For best results, the temperature during application and cure should be between 12 °C and 35 °C. Low temperatures retard cure while high temperature speeds up curing. High humidity may affect the final finish.

PACK SIZE

- Component A – 8 kg
- Component B – 4 kg

SHELF LIFE

24 months from the date of production.

STORAGE AND HANDLING

Care should be taken to avoid spillage. Product should be stored in a dry area and protected from freezing. Extreme temperatures may cause product to become unusable. For example: freezing and thawing may cause product to gel, and high heat may cause solid skin to form.

SAFETY

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

CLEANING

Remove as much leftover product as possible from the application equipment before cleaning. Do not empty product into drains or watercourses.

DISCLAIMER

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2008, Certificate CH12/1128.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted on the basis of the information supplied herein.

PU منزل على السطح

SINGLE PACK, SOLVENT BASED PU WATERPROOFING MEMBRANE

DESCRIPTION

OXIBOND 4250® is a premium, liquid-applied, highly permanent elastic, cold applied and cold curing, one component polyurethane membrane used for long-lasting waterproofing. **OXIBOND 4250®** is based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal, UV and natural element resistance properties. **OXIBOND 4250®** cures by reaction with ground and air moisture.

RECOMMENDED FOR

- Waterproofing of Roofs
- Waterproofing of Balconies, Terraces and Verandas
- Waterproofing of Wet Areas (under-tile) in Bathrooms, Kitchens, Balconies, Auxiliary Rooms, etc.
- Waterproofing of Pedestrian and Vehicular traffic Decks when used with Oxibond 4420®
- Waterproofing of Green Roofs, Flowerbeds, Planter Boxes
- Waterproofing of old Bitumen felts, Asphalt felts, EPDM and PVC membranes and old Acrylic coatings.
- Protection of Polyurethane Foam Insulation
- Waterproofing and protection of Concrete constructions like Bridge-Decks, Tunnels, Stadium Stands, Car Parks, etc.

KEY FEATURES

- White color
- When applied, forms a seamless membrane without joints or leak possibilities
- Resistance to water
- Crack-bridging up to 2mm, even at -10 °C
- Maintenance of it's mechanical properties, over a temperature span of -30°C to +90°C
- Provides water vapor permeability
- Provides full surface adhesion
- Provides sun reflectivity, contributing to thermal insulation
- Provides anti-root properties
- The waterproofed surface can be used for medium to heavy pedestrian traffic, when using Oxibond 4420 as the final top coat
- Resistant to detergents, oils and common chemicals
- Easy local repair, if the membrane is mechanically damaged

PHYSICAL PROPERTIES

Working Life	W3; 25 years
Climate Zone	M & S; North and South Europe
Imposed Loads	P1 to P4; High pedestrian and vehicle traffic
Roof Slope	S1 to S4; Roof slope < 5°C to > 30°C
Lowest Surface Temperature	TL4; -30 °C
Highest Surface Temperature	TH4; +90 °C
Reaction To Fire	Class E; EN 13501 – DIN 4102-1 and -7
Resistance To Wind Loads	>50 kPa; Resistant to all wind loads
Spreading Rate	1,5 – 2,5 kg/m2 in 2 or 3 layers depending on surface porosity, temperature and application method.
Specific gravity	1.42
Elongation at Break	900 + 80 % according to ASTM D 412
Tensile Strength	7,45 + 0,30 N/ mm2 according to ASTM D 412
Water Vapor Permeability	25,8 + 4,4 gr/m2/day according to ISO 9932:91
Resistance to Water Pressure	No Leak (1m water column, 24h) according to DIN EN 1928
Adhesion to Concrete	>2,0 N/mm2 (concrete surface failure) according to ASTM D 903
Hardness (Shore A Scale)	65 + 5 according to ASTM D 2240 (15")
Curing	7 days; Conditions: 20°C, 50% RH
VOC	Complies with LEED V4 requirements of a Maximum of 250 for Waterproofing Sealers.

SINGLE PACK, SOLVENT BASED PU WATERPROOFING MEMBRANE

CERTIFICATIONS

This product is manufactured in Europe for Colortek using Maris Technologies.

OXIBOND 4250® was tested by the German state testing institute for construction materials MPA-Braunschweig according to the European Union Directive for liquid-applied roof waterproofing kits ETAG 005 and was found conforming.

OXIBOND 4250® was certified by the German state Institute for construction techniques DIBt-Berlin with the European Technical approval (ETA) and with the CE-mark and certification.

OXIBOND 4250® was tested by the French Testing Institute for Construction Materials BUREAU-VERITAS according to the French norms and was found conforming.

OXIBOND 4250® was additionally tested and approved accordingly to:

- DIN 1928, which classifies it as a waterproofing coating.
- DIN 4102, which classifies it as a B2 fire rating construction material.
- DIN 4102 part 7, which classifies it as a surface coating resistant to fire sparks and radiating heat.

SURFACE PREPARATION

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

WARNING: Do not wash surface with water!

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

- Clean concrete cracks and hairline cracks, of dust, residue or other contamination. Prime locally with a diluted layer of **OXIBOND 4250®** and allow 2-3 hours to dry. Fill all prepared cracks with **OXIBOND 4100®**. Then apply a layer of **OXIBOND 4250®**, 200mm wide centered over all cracks and while wet, cover with a correct cut stripe of the **OXIBOND 4980®**. Press it to soak. Then saturate the fabric with enough **OXIBOND 4250®** until it is fully covered.
- Allow 12 hours to cure.
- Clean concrete expansion joints and control joints of dust, residue or other contamination. Widen and deepen joints (cut open) if necessary. The prepared movement joint should have a depth of 10-15 mm. The width/depth ratio of the movement joint should be at a rate of approx. 2:1. Apply some **OXIBOND 4100®** on the bottom of the joint only. Then with a brush, apply a stripe layer of **OXIBOND 4250®**, 200mm wide centered over and inside the joint. Place the **OXIBOND 4980®** over the wet coating and with a suitable tool, press it deep inside the joint, until it is soaked and the joint is fully covered from the inside. Then fully saturate the fabric with enough **OXIBOND 4250®**. Then place a polyethylene cord of the correct dimensions inside the joint and press it deep inside onto the saturated fabric. Fill the remaining free space of the joint with **OXIBOND 4100®**. Do not cover and allow 12 hours to cure.
- Prime absorbent surfaces like concrete with **OXIBOND 4750** or **SX0 Primewell** and non-absorbent surfaces like metal, ceramic tiles and old coatings with **COLORTEK NEOSHIELD**. Allow the primer to cure according to its technical instruction.

APPLICATION

- Stir well before using. Pour the **OXIBOND 4250®** onto the primed surface and lay it out by roller or brush, until all surface is covered. You can use airless spray allowing a considerable saving of manpower. Reinforce always with the **OXIBOND 4980®** at problem areas, like wall-floor connections, chimneys, pipes, waterspouts, etc. In order to do that, apply on the still wet **OXIBOND 4250®** a correctly cut piece of **OXIBOND 4980®**, press it to soak, and saturate again with enough **OXIBOND 4250®**.
 - After 12 hours (not later than 36 hours) apply another layer of the **OXIBOND 4250®**. If desired apply a third layer of the **OXIBOND 4250®**.
 - RECOMMENDATION: We recommend reinforcement of the entire surface, with the **OXIBOND 4980®**. Use 5-10cm stripe overlapping.
 - RECOMMENDATION: If the **OXIBOND 4250®** is applied without the fabric reinforcement we recommend a three-layer application.
-

SINGLE PACK, SOLVENT BASED PU WATERPROOFING MEMBRANE

- **ATTENTION:** Do not apply the **OXIBOND 4250®** over 0.6 mm thickness (dry film) per layer.

APPLICATION CONDITIONS

Do not apply at temperatures below 5 °C or when rain is expected. For best results, the temperature during application and cure should be between 5 °C and 35 °C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

PACK SIZE

- 1 US Drum – 25 kg

SHELF LIFE

24 months from the date of production.

STORAGE AND HANDLING

Care should be taken to avoid spillage. Product should be stored in a dry area and protected from freezing. Extreme temperatures may cause product to become unusable. For example: freezing and thawing may cause product to gel, and high heat may cause solid skin to form. Store upside down to avoid air entrapment inside the drum.

SAFETY

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

CLEANING

Remove as much leftover product as possible from the application equipment before cleaning. Do not empty product into drains or watercourses.

DISCLAIMER

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2015, Certificate LB18/234269.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted on the basis of the information supplied herein.

TWO-PACK, SELF-PRIMING POLYURETHANE

DESCRIPTION

POLYURETHANE PL1 is a high performance, high-build, two-pack HDI cured polyurethane coating.

RECOMMENDED FOR

Interior & exterior applications on concrete, metal structures, above ground and underwater tanks, high-traffic floors exposed to industrial or marine atmospheres, steel, blast cleaned steel or wheel-abraded steel, and wood.

KEY FEATURES

- UV resistance
- Non-yellowing
- Resistant to water
- Resistant to highly aggressive external exposure
- Excellent anti-corrosive properties
- Self-priming
- Outstanding durability
- Resistant to splashes of mild chemical
- Resistant to acids
- Resistant to hot saline water (salty water)

PHYSICAL PROPERTIES

Solvent Type	Moisture free PU thinner	
Finish Type	Full gloss finish	
Solids (volume)	64% as supplied 48% diluted with 25% thinner 45% diluted with 30% thinner	
Solids (weight)	73% as supplied	
Spreading rate by Roller	8m ² /L. wet film thickness 125 microns with 25% dilution	
Spreading rate by Spray	6.6m ² /L. wet film thickness 150 microns	
Pot life	1 hour at 20 °C	
Average Dry Time	Touch-dry in 1 hour - Full cure after 3 days	
Recoat	After 3 hours at 20 °C / After 2 hours at 30 °C	
Dry Film Thickness	60-70 microns depending on application method and surface porosity	
Density (A + B)	1.32 ±0.02 g/cm ³ for white base 1.17 ±0.02 g/cm ³ for W1 base 1.05 ±0.02 g/cm ³ for N base	
Dilution	25% with PU thinner for roller application / 30% with PU thinner for spray application	
Abrasion	CS17 wheels, 1000g weights, 500 cycles. Weight loss: 70mg	
Hardness	3H-4H	Based on ASTM D3363
Adhesion	>3.5MPa (concrete fracture)	Based on ASTM D4541
Color	White and Clear Bases	
VOC	355g/L as Per EPA Method 24	

TWO-PACK, SELF-PRIMING POLYURETHANE

CHEMICAL RESISTANCE / 24 HOUR OPEN SPOT TEST BASED ON ASTM D 1308-2

10% Hydrochloric Acid	No Effect
10% Sulfuric Acid	No Effect
10% NaOH	No Effect
Saturated Sugar Solution	No Effect
Saturated Salt Solution	No Effect
Ethanol	No effect
Motor Oil	No Effect
Gasoline	No Effect
Xylene	Minor spot
Isobutanol	No effect
Clorox	No Effect

MPI STANDARDS COMPLIANCE

Complies with MPI #72 polyurethane, two component, pigmented, gloss

SURFACE PREPARATION

All surfaces must be cured, clean, dry, and free from dirt, dust, rust, stains, grease, oil, mildew, wax, efflorescence, bond-breakers and other contaminants. Remove all loose, peeling, or chalky paint by sanding, scraping, or any other appropriate methods. Repair all cracks, holes, and other surface imperfections with a suitable patching material. Repaired surfaces should then be sanded smooth and dusted clean. Due to the high resin content, it is important to prime with a suitable primer.

New plaster or masonry surfaces must be allowed to cure (28 days) before applying base coat. Cured plaster should be hard, have a slight sheen and a maximum pH of 10. A soft, porous or powdery plaster indicates improper cure. Never sand a plaster surface; knife off any protrusions and prime plaster before and after applying patching compound. Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles.

CAUTION: Scraping or sanding surfaces of older buildings may release dust containing lead or asbestos. **EXPOSURE TO LEAD OR ASBESTOS CAN BE VERY HAZARDOUS TO YOUR HEALTH.** Always wear appropriate personal protective equipment during surface preparation and finish cleanup of any residues by water-washing all surfaces.

APPLICATION CONDITIONS

Do not apply at temperatures below 5 °C or when rain is expected.

APPLICATION METHOD

Stir well Components & wait for 15 minutes before applying the product. Easy to apply by brush, roller or airless spray. Thinner should be added after mixing the components. Too much solvent results in lower sag resistance & slower cure. Applications should be in accordance with BS6150 & BS5493 standards.

For Roller application, dilute at 25%

For spraying use 2 bar pressure with a 1.4-1.7mm nozzle.

DO NOT DIVIDE OR USE HALF OF THE PRODUCT. ONCE THE PACK HAS BEEN OPENED, IT SHOULD NOT BE CLOSED BACK. YOU SHOULD BE COMMITTED TO USING THE PRODUCT.

PACK SIZE

	White/W0	W1	N	Hardener
1 US Quart (kg)	1.22	0.91	0.74	0.15
1US Gallon (kg)	3.65	2.73	2.23	0.45

TWO-PACK, SELF-PRIMING POLYURETHANE

SHELF LIFE

- Hardener: 12 months from the date of production.
- Base: 24 months from the date of production.

STORAGE AND HANDLING

Care should be taken to avoid spillage. Product should be stored in a dry area and protected from freezing. Extreme temperatures may cause paint to become unusable. For example: freezing and thawing may cause paint to gel, and high heat may cause solid skin to form.

SAFETY

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you have trouble breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

CLEANING

Remove as much leftover product as possible from the application equipment before cleaning. Clean equipment immediately after use with paint thinner. Do not empty product into drains or watercourses. Wash hands after use in warm soapy water.

DISCLAIMER

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2015, Certificate LB18/234269.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted based on the information supplied herein.

LIGHT REFLECTIVE

LIGHT REFLECTIVE ADDITIVE

DESCRIPTION

Light reflective are solid, spherical glass beads for use with marking materials such as road marking paint.

RECOMMENDED FOR

To be used as a drop agent on road marking paints to increase road safety in an economical manner. Thanks to the retro-reflective action at night, a vehicles headlight beam is returned to the driver's eye. The microspheres not only multiply the visibility of the markings at night, but also increase the markings durability in general.

PHYSICAL PROPERTIES

Grade	800
Hardness	6-7 Moh Scale
Specific Weight	2.5g/cm ³
Bulk Density	1.6 kg/Lt
Free Silica	None
Shape	80% Round
Reflectivity	Nd ≥ 1.5 for coated & un-coated

APPLICATION CONDITIONS

Do not use or apply at temperatures below 5°C or when rain is expected.

APPLICATION METHOD

Apply glass beads on wet coat of paint

PACK SIZE

- 1.2 kg

STORAGE AND HANDLING

Care should be taken to avoid spillage. Store in a dry area.

DISCLAIMER

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2008, Certificate CH12/1128.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted on the basis of the information supplied herein.