

Duratop 2K Primer

Optima Coatings Duratop 2K Primer is a dual component etch primer suitable for achieving adhesion of Optima Coatings anti-slip coatings to all types of aluminium as well as all other metal types where adhesion is problematic. Duratop 2K Primer is suitable for applications involving complete immersion in water or to prepare metal walkways for the application of Optima Coatings polyurethane floor coatings.

Colours: N/A

PRODUCT USES

Optima Coatings Duratop 2K Primer can be used in:

- Aluminium walkways and steps
- Hydraulic lifts
- Metal railings
- Stainless steel items
- Galvanized items
- Aluminium boats
- Glazed ceramic tiles
- Inside metal tanks
- Pipes and fittings, etc.
- All applications where metals will be immersed in water for more than an hour

ADVANTAGES

- Bonds to most surfaces.
- Waterproof.
- Fast drying time.
- Compatible with Optima Coatings Protectakote, Optima Coatings Protectakote UVR, Optima Coatings Marinekote and Optima Coatings Safekote anti-slip coatings.
- High build.
- Pre-weighed packs.
- Neutral colour.

COVERAGE

- 7m² per litre per coat. Applied in one a coat application. Coverage will vary depending on the porosity and profile of the surface.

SURFACE PREPARATION

- Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as rust, dirt, salt, algae and grease.
- Lightly abrade metals with P80 - P180 grit or sandblast with P360 – P400 grit if desired.
- Wipe surface with solvent and dry thoroughly before application.

APPLICATION

- It is not necessary to thin Optima Coatings Duratop 2K Primer.
- Mix the reweighed packs together in a suitable container and when homogeneous, commence application.
- If the packs are to be split into smaller quantities, the mix ratio is 2 parts by mass of base plus 1 part by mass of activator.
- If a high build is desired, a second coat may be applied after waiting 5-10 minutes only for the solvent to flash off.
- Coats should be kept as thin as possible to avoid trapping solvent.
- Drying time is 30 minutes at 25°C after which the topcoat may be applied.

CLEANING

- Equipment can be cleaned with xylene.
- Ensure that the xylene does not come into contact with Optima Coatings anti-slip topcoats, as this will prevent the drying of the topcoats.

IMPORTANT

- Optima Coatings Duratop Primer contains water and alcohols. Do not allow contamination of reactive urethane with it. A rapid development of heat and pressure will result. In addition, the ability of the urethane to cure may be reduced.
- Duratop Primer produces some self-polymerisate that is evident in the form of a powder left on the surface and some solid material on the bottom of the tin. This is inherent and does not reduce the functioning of the product.
- Opened tins of Duratop Primer should not be stored for any extended length of time as solidification occurs.
- Duratop Primer may have reduced active ingredient if there is excessive self-polymerisate evident, but will still function. In such a case, simply use more primer.
- Duratop Primer produces a surface whereby hydrogen atoms already present on the surface are modified by the attachment of a single, covalently bonded organosilane molecule. The organic part of this molecule is then available for reaction with Optima Coatings polyurethane coatings. Duratop Primer is therefore only one molecule thick and is not visible to the naked eye. The matting effect or the powder that is sometimes visible is self-polymerisate.
- The self-polymerisate powder does not need to be removed prior to application of the urethane. It will be compounded into the urethane and will not be visible.

SAFETY PRECAUTIONS

- Optima Coatings Duratop 2K Primer base contains solvent which is highly flammable.
- The activator contains acid - avoid contact with skin and wear glasses in case of splashes.
- Not suitable for zinc surfaces.
- Not suitable for thermoplastic acrylics and NC products.
- Ensure good ventilation to prevent build up of flammable solvents.
- Skin contact: Wash thoroughly with soap and water.
- Eye contact: Flush immediately with water for 10 – 15 minutes and contact a physician.
- Respiratory problems: Remove affected person to fresh air immediately and contact a physician.
- Not for internal consumption.

TECHNICAL DATA

Pack size	1.5 litre, 6 litre		
No of components	Two		
Mixing ratio	2 parts by mass of base to 1 part by mass of activator		
Pot life	24 hours at 25°C		
Dry film thickness	25 microns per coat		
Flash point	> 23°C		
Spray gun settings	Gravity feed:	1.5 – 1.8mm	2.00mm tip 2 - 4 bar
	Syphon feed:	1.8 – 2.2mm	2.00mm tip 2 - 4 bar
	Thin to 18 seconds Ford cup 4 at 25°C using thinners if required		
Touch drying time	20 minutes at 25°C		
Overcoating time	30 – 60 minutes at 25°C		
Service temperature	-30°C to 80°C		
Application temperature	5°C to 35°C		
Shelf life	12 months		
Storage conditions	Cool dry place below 25°C		
Properties listed are only for guidance and are not a guarantee of performance			

Technical details above are provided in good faith. We are an ISO 9001: 2008 registered company and our products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of our products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst we are confident in guaranteeing the quality of our products, we cannot however accept any liability for performance failure due to the incorrect application of our products. Correct application is critical to the successful performance of our products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase.

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