Optima COATINGS

DATA SHEET

FLOORING

DURATOPACRYLIC PRIMER

DURATOP ACRYLIC PRIMER is a pure acrylic, self-cross-linking primer for cementitious surfaces, designed specifically to promote optimum adhesion. This high performance, water-based primer provides a sound surface with excellent resistance to water, alkali and efflorescence*. This specially formulated bonding primer dries quickly to a clear, natural look.* Efflorescence: a white powdery substance on a cement surface.

Colours: Clear.

PRODUCT USES

- DURATOP ACRYLIC PRIMER is essentially an adhesion promoting primer for painting cement floors.
- Can be used as a clear sealer for concrete floors.

ADVANTAGES

- Penetrates surface for optimum adhesion.
- Cross-links to form a protective barrier.
- Pure acrylic.
- Water-based and easy, no-mix formula.
- Highly alkaline resistant.
- Low water permeability.
- Quick drying.
- Excellent resistance to efflorescence.

COVERAGE

- 6 – 7m² per litre per coat. Applied in a 1 coat application.
- A second coat is necessary for highly porous cement.
- Coverage will vary depending on the porosity and profile of the surface.

STEPS TO ENSURE A SUCCESSFUL APPLICATION

Please read all instructions carefully before starting the project.
Check the cement floor for conditions that might interfere with paint adhesion.
Proper surface preparation is critical for successful installation.
Incorrect preparation, priming or top coating will result in paint failure such as peeling or blistering.
Optima Coatings recommends that a test patch of the DURATOP ACRYLIC PRIMER and DURATOP PUD MONO system is applied to all floors.
Room and surface temperatures must be between 5ºC and 35ºC during application

1. INSPECTION

- Allow new cement at least 28 days to cure. All surfaces must be dry. Check the cement floor for conditions that might interfere with proper adhesion; such as moisture, loose crumbling cement, cement dust, floated or shiny cement floors, sealed cement, release agents, curing compounds, salts, efflorescenceand laitance, dust, oil and grease.

2. SURFACE PREPARATION

- Cleaning: All surfaces must be sound, clean and free of oil and grease. Use Optima Coatings OPTIDEGREASER if necessary

3. PRIMING

- All surfaces must be primed with DURATOP ACRYLIC PRIMER to aid adhesion and resist thealkalinity inherent in cement.

4. TEST THE TOPCOAT

- Always apply a test patch ofDURATOP ACRYLIC PRIMER and DURATOP PUD MONO to ensure the substrate has been properly prepared and primed. Check adhesion of the coating by cutting a small X in the coating using a sharp utility knife. Firmly apply a piece of packaging tape over the centre of the X cut, then pull off with a fast snap. The adhesion is suitable if no significant coating is removed beyond the X cut. If the coating fails is test, then additional surface preparation is required - repeat the above steps.

APPLICATION

- Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as dirt, salt, algae and grease.
- **UNPAINTED CEMENT:**
- **Perform a moisture test:** All cement contains moisture but excessive moisture will affect adhesion and cause blistering. Test for excessive moisture by taping a clear plastic sheet (approximately 30cm x 30cm) to an area on the cement – the taping must create an airtight seal between the concrete and the plastic sheet. Leave it for 24 hours and check the underside of the plastic. If water droplets or a darkening of the cement is detected under the plastic, then moisture is present and the surface cannot be painted. Leave the cement to cure for another 7 days, then re-test. Painting should continue only after the moisture is removed, along with the source of moisture being determined and eliminated. If there is no damp- course beneath the cement, rising damp caused by a very shallow water-table can cause delamination of theDURATOP ACRYLIC PRIMER and DURATOP PUD MONO system.
- **Check for loose, crumbling cement and cement dust:** All loose cement and dust must be removed. Repair damaged and crumbly areas with suitable screeding products, however crumbling and dusting may be symptomatic of poorly cured cement which cannot be painted. Apply a 0,5m² test patch of DURATOP ACRYLIC PRIMER and DURATOP PUD MONO as per instructions and test adhesion after 7 days.
- **Floated or shiny cement floors:** Must be etched using a suitable chemical etcher as per instructions.
- **Sealed cement:** Some floors have been finished with a clear sealer. Test for a sealer by lightly sprinkling water onto the surface. If the water beads and does not penetrate then a sealant is present and paint may not adhere properly. Use a suitable chemical etcher as per instructions to remove the sealer. If the etching process does not foam, then it is necessary to remove the sealer with abrasive blasting.
- **Release agents, curing compounds, salts, efflorescence and laitance***must be removed with a suitable chemical etcher as per instructions.
- **Dust, oil and grease:**
- The floor should be clean, structurally sound and free of dust, oil and grease. Clean the floor with OPTIDEGREASER as per instructions, rinse with water and allow to dry completely. The DURATOP ACRYLIC PRIMER and DURATOP PUD MONO system is not recommended in instances where there is significant oil contamination where the grease and oil has been heavily impregnated into the concrete
- **PREVIOUSLY PAINTED CEMENT:**
- **Loose paint:** If the paint is peeling and flaking, or can be easily removed with a paint scraper then the previous paint needs to be removed.
- Such as an oil-based enamel or stoep paint, these should be dulled by abrading the surface with medium grit sandpaper. In the case of an Epoxy coating, even more careful abrading and dulling is needed. Apply a test area of theDURATOP ACRYLIC PRIMER and DURATOP PUD MONO as per instructions and test adhesion after 7 days. If adhesion is poor, additional abrading is necessary.
- **Sound condition:**
- If the paint is in a sound condition with good adhesion, then clean the surface with OPTIDEGREASER as per instructions.
- **Dust, oil and grease:**
- The floor should be clean, structurally sound and free of dust, oil and grease. Clean the floor with OPTIDEGREASER as per instructions, rinse with water and allow to dry completely. The DURATOP ACRYLIC PRIMER and DURATOP PUD MONO system is not recommended in instances where there is significant oil contamination where the grease and oil has been heavily impregnated into the concrete.*Laitance: a hard, solid layer that forms on the surface of concrete..

PRIMING

- All unpainted or previously painted cement floors must be primed with DURATOP ACRYLIC PRIMER to aid adhesion and resist the alkalinity inherent in cement.
- Stir DURATOP ACRYLIC PRIMER well.
- Apply with a mohair roller or brush.
- DURATOP ACRYLIC PRIMER appears slightly blue but dries to a clear, natural look.
- Allow the primer to dry completely for approximately 3 hours depending on the room temperature. A clear layer should be visible once dried.
- If the cement floor is porous, the primer will be absorbed into the cement and a clear layer won't be visible. In this instance, apply a second coat of the primer to achieve this clear layer.
- Allow the primer to dry completely before over-coating with DURATOP PUD MONO Polyurethane system.

CLEANING

- Clean tools and equipment using water immediately after use.
- For dried material, use Optima MEK or Xylene thinners before full cure is affected.

SAFETY PRECAUTIONS

- 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. The safety data sheet is available from your local Optima Coatings Technical Sales Consultant.

TECHNICAL DATA

Pack size	5 litre, 20litres
No of components 1	
Overcoating Time ± 3 Hours	
Volume solids 30% to 31%	
Service temperature -15ºC to 40ºC	
Application temperature 5ºC to 35ºC	
Density 1.06 g/cm3	
Toxicity	Non-toxic
Fire hazard None	
Shelf life 2 years	
Storage Cool,dry area below 25º	

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.

Updated: March 2018 (this supercedes all previous publications)