

# Durafix 600

Optima Coatings Durafix 600 is a permanent epoxy bonding agent for wet to dry, internal or external bonding of renderings, granolithic toppings, and concrete to concrete. Durafix 600 has a bond strength which is greater than the tensile strength of concrete and is insoluble when cured. Durafix 600 does not shrink and provides an even and stress-free bond.

Colours: N/A

## PRODUCT USES

- Optima Coatings Durafix 600 can be used when a high strength bonding agent is required for grouting of vertical dowel bars into concrete.
- Suitable for use on the following surfaces:
  - Steel
  - Glazed tiles and bricks
  - Ceramic and quarry tiles
  - Terrazzo tiles and floors
  - Smooth and worn granolithic pavings
  - Old and worn concrete
  - Engineering and semi-engineering bricks

## ADVANTAGES

- High strength.
- Non-shrink.
- Moisture tolerant (wet to dry).
- Durable.
- Resistant to chemical attack.
- Supplied in pre-weighed units.

## COVERAGE

- 1 - 2m<sup>2</sup> per litre per coat. Applied in one coat.
- 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 dirt, rust, salt, algae, and grease to guarantee good bond strength is achieved.
- Gloss surfaces must be abraded.
- All weak or friable concrete should be removed by chipping, grit blasting, or scabbling until a sound base is obtained.
- All laitance should be removed by mechanical scarification, grit blasting, or by acid etching.
- Visible signs of mould growth, lichen, or algae, should be removed and treated with an anti-fungal Solution.
- New concrete should have cured until the shrinkage and movement is low.
- All curing compounds should have disintegrated or be removed and application carried out only onto a clean, dust free surface.

**APPLICATION**

- **Mixing:** Carefully transfer the entire contents of the smaller container of Optima Coatings Durafix 600 reactor component to the larger Durafix 600 base component tin and thoroughly mix, using a stout palette knife or a slow running drill with a paint mixing paddle until uniformity is achieved. This normally takes about three minutes. Do not attempt to mix only part of the contents or attempt to thin Durafix 600.
- **Application:** Durafix 600 should be applied evenly across the whole surface with a clean, short haired paint brush or a laying-on trowel. After application, Durafix 600 must be left to stand before overcoating. Depending on the surface and prevailing conditions, curing time will typically be 60 minutes at 25°C or 45 minutes at 40°C. Durafix 600 should be protected during this time to prevent contamination. This is particularly necessary on horizontal surfaces.
- **Renderings and screeds:** It is essential that granolithic paving and sand cement renders and screeds are fully cured. This can be achieved by curing with a fine spray of clean water and polythene sheeting. It is recommended to spray the surface with a curing membrane. If substrate is not fully cured it may cause the render or screed to crack and craze. Expansion joints formed in the substrate should be carried through the rendering or screed and may be filled with a joint sealant.

**CLEANING**

- Clean tools immediately using Optima Coatings Xylene while Optima Coatings Durafix 600 is still wet or tacky.
- Once Durafix 600 has set hard, it can only be removed by chipping or burning.

**IMPORTANT**

- Store under cover out of direct sunlight and protect from extremes of temperature.
- In tropical climates the product must be stored in an air conditioned environment.

**SAFETY PRECAUTIONS**

- As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs.
- Treat splashes to eyes and skin immediately.
- If accidentally ingested, seek medical attention.
- Reseal containers after use.
- Use in well ventilated areas and avoid inhalation.

**TECHNICAL DATA**

Pack Size		2 litres
Mixed Density	@ 25°C	1485kg/m <sup>3</sup>
Pot life:	25°C	2 hours
	40°C	¾ hours
Tack free time:	25°C	9 hours
	40°C	5 hours
Full cure:		7 days

*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 2013 (this supercedes all previous publications)*