

THORO[®] DECK PU35

Elastomeric Polyurethane Based Waterproof Coating

Approvals

Contact with Potable Water – WRC Listing No 9809512
See instructions for use – Potable Water Contact

Description of Product

A two component solvent free, polyurethane applied at a thickness of 1.5mm and above that cures to form a seamless, elastic membrane capable of bridging cracks in concrete.

Fields of Application

For waterproofing large expanses of exposed concrete surfaces such as reservoir roofs where some movement in the substrate is anticipated.

Features and Benefits

- ? Solvent free system
 - ? safe to use, transport and store, environmentally friendly
- ? Tough, hardwearing
 - ? low maintenance, resistance to damage and light vehicular traffic
- ? Cost effective
 - ? simple and fast to apply by traditional methods

Technical Data/Typical Properties

Resin type	Polyurethane
Volume solids, %	100
Pot life, <i>minutes</i>	10-30
Over coat time, <i>hours</i>	10-72
Elongation at break, %	325
Tensile strength, <i>N/mm²</i>	4.3
Shore A Hardness	75

Application Procedure

Substrate quality

The substrate should be structurally sound concrete with a minimum pull-off value of 1.5N/mm². All substrates should be clean and free of dust, loose particles, coatings, oils or any other substances that could adversely affect adhesion. Substrate moisture content should be 4% or below (CM Method)

Substrate preparation

As with all surface coatings, proper surface preparation is vital to ensure the successful application and performance of Thoro[®] Deck PU35.

Preferred methods of preparation include high pressure water jetting or abrasive blasting. Aggressive scabbling or acid etching should be avoided. The prepared substrate should be dry before priming. (4% or below).

Mixing

Thoro Deck PU35 Primer

Thoroughly mix the base (Component A) for 1 minute with a suitable paddle in a slow speed drill (300-400rpm). Add the entire hardener (Component B) to the base while stirring. Continue to mix for 3 minutes.



Thoro Deck PU35

Thoroughly mix the base (Component A) for 2 minutes with a suitable paddle in a slow speed drill (300-400rpm). Add the entire hardener (Component B) to the base while stirring. Continue to mix for 3-5 minutes.

Application

Thoro Deck PU35 Primer

Do not apply at temperature below 10°C or if the temperature is expected to fall below 5°C overnight. Surfaces should be dry, and free from rain or condensation for 24 hours before and after application. The substrate temperature should be a minimum of 3°C above the dew point.

Apply Primer by roller ensuring that all areas are covered. Apply at an even rate of 0.2-0.4kg/m². Do not allow to pond. Allow to cure for a minimum of 8 hours (at 20°C).

On extremely porous surfaces two coats of primer may be necessary. It is essential that the concrete substrate is completely sealed before the application of the Thoro Deck PU35.

Thoro Deck PU35

Do not apply at temperatures below 5°C or if the temperature is expected to fall below 0°C overnight. Surfaces should be dry and the substrate temperature should be a minimum of 3°C above the dew point.

Apply Thoro Deck PU35 over the cured Primer by roller or notched squeegee in one or two coats to a total thickness of 1.5mm.

Note

Under no circumstances should any solvents be added to Thoro Deck PU35 or Thoro Deck PU35 Primer.

Curing

Thoro[®] Deck PU35 requires no special procedures, but should be protected from rain for approximately 3 hours (at 20°C) and should not be subjected to foot traffic for 24 hours or vehicular traffic for 72 hours.

Cleaning

Primer and Top Coat - tools and equipment should be carried away from the working area and water course and cleaned with xylene or other suitable solvent.

Coverage

Coverage rates are dependent on substrate profile, porosity and temperature. The figures quoted are for guidance only and assume a smooth surface with ambient temperatures between 15 to 25°
1.3kg/m²/mm

Packaging

Available in 15kg units

Storage

Thoro[®] Deck PU35 components should be stored clear of the ground in dry conditions. Storage temperature should be 10 to 30°C.

Shelf Life

Rotate stock in order not to exceed the shelf life of 12 months.



THORO DECK PU35 Degussa Construction Chemicals UK Version 6

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes, which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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