

# Deckrete Latex®

## Overview

Deckrete Latex is a system consisting of latex mixed with dry components to produce a versatile underlayment. It provides a good bonding surface for most solid material surfaces over it. With Deckrete Latex, cracking and separation from the treated steel deck plates or substrates can be prevented.

Deckrete Latex is resistant to oil, salt, chloride, and mild chemicals/solvents when applied up to specified thickness. It is also safe, easy to use, non-hazardous to health and resistant to cracking.

- Easy application – Just mix the 2 components together and apply with trowel to specified thickness. Deckrete Latex is the most cost effective underlayment available and can be applied under normal operating temperatures with no requirement for special tools.
- No water addition – All components are pre-packed therefore consistency of solid content is ensured, This translates to reduced man-hours costs as well as a consistency in quality.
- Breathable underlayment – Deckrete Latex is water resistant but allows water vapour through making it a good choice for indoor subfloor applications, especially areas with exposure to moisture.
- Good mechanical properties – Not only is Deckrete Latex resistant to thermal movement, physical shock and vibration, it also has good bonding qualities.
- Non-toxic & environmentally friendlier– Safe handling, low odour, non-hazardous to health. It also utilizes an industrial by-product waste.

## Packaging & Mixing

The composition of Deckrete Latex underlayment is formed by the mixture of latex emulsion (A) and powder components (B),

**Part A** Deckrete Latex decking emulsion, contained in a 5 gallon pail. Approx. 19kg per pail. (Milky Emulsion)

**Part B** Deckrete Components, packed in 25kg bags. (Grey powder)

**Mix Ratio:** 1 pail of Part A to 150-200kg of Part B (depending on environmental conditions). The fresh mix shall have a true slump of not more than 40mm.

## General Instructions

1. Ensure decks/substrates to be installed on are *intact/stiff/hard, clean and free from contaminants* (oil/chemicals/dust, etc).
2. Prime the substrate with a thin coating of Part A using a suitable hand brush, roller or work broom before installing the mixed underlayment compound.
3. Mix Parts A&B thoroughly with a hand mixer (Fig. A) in a plastic drum (Fig. B) or by manual mixing (typically requires longer mixing times). Ensure the mixture is homogeneous and consistent, with the *dry components thoroughly wetted by the decking emulsion, before applying material*. No water shall be added to retain consistency of the solid content of Deckrete Latex. The fresh mix shall have a true slump of not more than 40mm (Refer to BS EN 12350-2:2009 standard as a guide).
4. Apply the underlayment to specified thickness with a metal trowel (Fig. C) and if required, use a flat bottom screed bar (Fig. D) or float to smoothen the surface.
5. After installation completes, wash tools immediately with clean water.
6. *Application temperature* range is from 18°C to 30°C. Protect the treated surfaces for 24 hours to prevent excessive evaporation of water if material is either exposed to direct sunlight or the ambient temperature is above 28°C, and also if relative humidity is below 60%. *Do not allow temperature to drop below 18°C for at least a week.*
7. Surfaces can withstand light foot traffic (No studded footwear!) after 12-16 hours depending on the environment. However, heavy or dynamic loads can only be applied after 7 days.

## Specifications\*

### Technical:

Compressive Strength (N/mm<sup>2</sup>): 25  
ASTM C579:2001

Flexural Strength (N/mm<sup>2</sup>): 10  
ASTM C580:1998

Pull Off Bond Strength (N/mm<sup>2</sup>): 0.98  
ASTM D4541:1995

Sound Transmission Class: 34  
ASTM E90 – 97, ASTM E413 – 87

## Coverage (1 pail : 7 bags)

Depth (mm)	Area (m <sup>2</sup> )	Area (ft <sup>2</sup> )
6	14.0	150.7
8	10.5	113.0
10	8.4	90.4
20	4.2	45.7

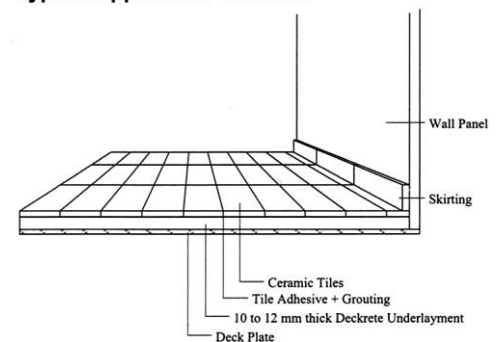
Note: Coverage area is only approximate as conditions of use is subjected to type of applications

## Suitable Applications

- ▶ Underlayment for steel decks
- ▶ Leveling & Flushing of surfaces
- ▶ Gradient surfaces for wet areas

### Application Example

### Typical Application on Decks



Note: General Application Drawing not to scale

## Installation Notes

With the good bonding qualities of Deckrete Latex, wire-mesh is generally not required as an additional bonding aid, unless the material is installed on an outdoor exposed deck, very wavy/undulating deck, non-stiff deck or for very thick installations.

For obtaining even better bond strength, deck surfaces shall be of a good surface roughness and can be obtained with reference to "SSPC-SP 11" specifications. It is *not recommended to apply Deckrete Latex on an untreated steel/aluminum surface.*

Deckrete Latex shall also not be used as a finished floor. The underlayment is to be covered with linoleum sheet, carpet, ceramic tiles, paints or other approved flooring materials. It should *not be less than 5mm thick* and this thickness is to be maintained even after irregularities in the deck plating have been flushed up. If heavy work is to be done on top of the floor after installation of underlayment or floor finishing, it is *highly recommended to protect the surface with plywood sheets of at least 3mm in thickness.* This will minimize damage on the floor.

It is recommended to consult vendor before initiating product installation as conditions are different for some deck systems. Installation guides can be requested from vendor if necessary. For further enquiries about product application, feel free to contact our authorized vendors for more information.

## Safety, Storage & Transportation

Deckrete Latex is for **INDUSTRIAL USE ONLY**. Components shall be kept in their original packaging during storage and transportation, and to be opened only upon immediate usage. **Do not allow frosting.** The minimum shelf life for Part A is at least 12 months, and for Part B is at least 6 months from date of manufacture (on packaging), if stored properly.

Some packaging materials for Deckrete Latex system can be recycled and reuse. Please refer to packaging for the recycling category.

**KEEP OUT OF REACH FROM CHILDREN**

Wear Personal Protective Equipment when handling chemical component and if mixed materials come into contact with eyes or accidentally ingested, rinse with plenty of water and seek immediate medical attention. **AVOID DUSTING.** For further information, please consult the MSDS/SDS sheets for the respective products.

Deckrete Latex is NON-COMBUSTIBLE and can be safely used in confined areas with adequate ventilation.

## Testing & Certification

Deckrete Latex is awarded **type approvals** for marine primary deck covering application with IMO FTPC Part 2 and 5 fire rating (IMO Res. A687 (17) req.) by marine certification bodies such as Det Norske Veritas (MED B&D), Lloyd's Register (T.A.) and the American Bureau of Shipping (D.A.).



Cert No.: FM 512080  
ISO9001:2008

For more information about material & tools, contact below vendor.

Co. Stamp

## Recommended Tools



Fig. A - Hand Mixer



Fig. B: Plastic Barrel Drum



Fig. C: Flat Trowel



Fig. D: Screed Bar

Refer to Techny's tools' catalogue for more information on above tools.

\* Values specified are the representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods.