DryTex PU 400-E

Polyurethane Waterproofing and Protection System

One component, VOC compliant, ready to use, elastic, polyurethane liquid applied waterproofing membrane. It cures to seamless membrane, maintains its elasticity, suitable for applications to horizontal and vertical surfaces. DRYTEX PU400-E is a high build liquid applied 100 % polyurethane waterproofing membrane with ultimate protection for simple, detailed or complicated structures.



Outstanding Features

- It's a highly elastic product, cures to a seamless membrane capable of withstanding severe cases of expansion, contraction and deck movements.
- Good resistant to abrasion , Corrosion ,water and root penetration .
- Superior wetting and adhesion properties ensure durable bond and resistance to peeling, chipping, and or separation and a longer life
- Has the unique property of adapting itself over the irregular contours of the deck and forming a waterproof and impervious blanket
- mechanical, salt, algae, chemical, thermal, UV, anti root and weather resistance properties
- Class B (Roof) Fire reaction classification
- Ultra Low VOC, LEED and Green Building Construction comply product

Application field

Ideal waterproofing and damp proofing system for concrete based substructure, superstructure, roof, wet area, complete waterproofing and protection of existing roofs, masonry and concrete walls, basements, bridges, decks, podium, flower beds, planters area, terraces, metal roof and industrial roof & skylights etc. Provides excellent adhesion to almost any type of surface.

Confirmation

HR7020 confirms to ASTM 2939, ASTM D 1227 Type III Class 1, ASTM C 156, ASTM D1187, ASTM C309 standards and British standard BS3416, BS 3690 "protection of buildings against water, vapor, air and damp proofing used in buildings.

Characteristics (Confirms to ASTM C 836)

PROPERTIES	TYPICAL DATA	TEST METHOD
Construction	Liquid Elastomeric polyurethane base	
Tear Strength	30 N/mm	ASTM D 624 -98
Tensile strength	5 N/mm²	ASTM D 412
Elongation	950%	ASTM D 412
Solid content	100%	ASTM D 2369
Adhesion strength	2.5 N/mm2	ASTM D 903
Softening Point	165°C	ASTMD2398
Low Temp. Flexibility	-50°C	ASTM C 836
Shore A Hardness	75	ASTM D 2240-05
Crack bridging	3 mm	ASTM C 836
Modulus @100 % Elongation	1.34 N/mm²	ASTM D 412
Water Impermeability	Impermeable	EN 14891
Fire response	ASTM E108 – Roof /DIN 4102-7	Class B
Spread rate	Min 1 L / m² (Two Coats)	
Water Vapor Transmission	0.06 perms	ASTM E 96
Setting time	One day	
Duration between the coats	4 to 6 hours	
Application temperature	5° C to 50 °C	
Service Temperature	-40°C to 120°C	
Solar Reflective Index	EN 4101998	≥ 90%
VOC	Less than 50 g /L	ASTM D 3960/2369

engineered to perform

Installation

(a) Surface Preparation

Surface to be waterproofed shall be dry, clean, sound and free of all contaminants which may interfere with adhesion or proper curing .The substrates should not contain holes or cracks and should be dust-free. All shrinkage cracks shall be treated with suitable material. Moving structural cracks greater than 2 mm shall be routed out and caulked with approved material. The right angle bends must have coving detail installed . In areas where parapet walls , columns, pipe penetrations are present , a 45 °coving fillet shall be made using shrinkage controlled mortar . All detailing must be cured for a minimum period of 12 hours prior to the application of the liquid membrane. Detailing shall be wiped clean and dry prior to the application of the membrane.

(b) Tools or Equipment

Tools or equipment to be used for the application

1. Roller (Short nap roller)
2. Brush (Good quality synthetic bristle brush)
3. Spray (Airless Sprayer, 1gpm, 3,000 psi, .027 or .031 tip)

(c) Reinforcing the required areas (Optional)

Areas of potential high movement and expansion joints may require to be sealed with approved reinforcement mat and sealants .Consult with OBS for further information and selection of proper auxiliary materials . All detailing must be cured for a minimum period of 12 hours and wiped clean prior to the application of the liquid membrane.

(d) Coating Application

Before application , mix DRYTEX PU400-E liquid well with a slow and stable speed mixing paddle at least for 3 minutes. The mixing container should be dry and clean.

This rapid setting liquid is spread at the desired thickness onto the prepared surface. The coating is applied from the container using standard roofing brushes, squeegees or airless spray equipment at the recommended coverage rates on properly cleaned and prepared dry substrates. Application of the DRYTEX PU400-E System should be done in one complete step to create a smooth uniform self leveling surface without cold joints, lines or streaks. Apply the first coat at the required rate .Let it dry (approximately 4-6 hours should be waited between two layers), then apply the second coat at the required rate .Waiting time shortens in hot weather and lengthens in cold weather. Full cure for foot traffic and flood test require minimum curing period of 48 hours.

Packing 20 Litre Pail

Storage and Shelf life

Store materials in dry and covered place with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Shelf life under normal conditions in closed container will be 12 months.

Warranty On preapproved, qualified applications, when you use an approved applicator, a 25-year warranty is available. Contact us for complete warranty information

Product information contained herein are presented in good faith and believed to be reliable. They do not constitute part of our terms and conditions of sale. It is also not a guarantee, either expressed or implied, that the data are correct or that products described are merchantable or fit for a particular purpose as methods of use are beyond our control. Customer should determine the suitability of our materials and installation recommendations before usage. Manufacturer's sole responsibility shall be to replace that portion of any product that proved to be defective.

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ORGANIX BUILDING SYSTEM
Dubai - U.A.E., E : info@organixbs.com
www.organixbs.com