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Division: 03
Section: # 07000

PLY-SHIELD 704

COLD APPLIED PITCH MODIFIED
POLYURETHANE WP MEMBRANE

DESCRIPTION

PLY-SHIELD 704 is a cold applied pitch modified single component modified aliphatic polyurethane waterproofing membrane.

USES

PLY-SHIELD 704 is suitable for:

- Concrete
- Masonry & metal surfaces
- Wet areas
- Concrete retaining walls

ADVANTAGES

- Highly elastic
- High tensile strength
- Crack bridging up to 2mm
- Resistant to oxidation
- Highly durable

COMPLIANCE

Complies with ASTM D 2833, D-412, D-417, E-96/BW

MATERIAL DATA

- Type: Polyurethane Resin
- Color: Black
- Packing: 20kg Pail, 220kg Drum
- Storage condition: 9month in unopened packaging, between 5°C and 35°C

TECHNICAL DATA

Property	Value	Test Method
Solid Content	70 ± 5%	ASTM C 836
Density	1.1 ± 0.15	ASTM D6937-08
Tensile Strength	>1.5 N/mm ²	ASTM D 412
Elongation at Break	600 ± 25%	ASTM D 412
Shore A Hardness	55	ASTM D2240
Tear resistance	>20N	ASTM D 624
Resistance to Bacteria	No Attack	ASTM D 4299
Resistant to Algae	No Attack	ASTM G 29
Service Temperature	75°C	ASTM D2485
Extensibility after heat aging	No Crack	ASTM C 1522
Permeability @ 5 Bar	Null	BS EN 12390
Artificial Weathering	No Loss of Flexibility	ASTM D 6947
Theoretical Spreading Rate	0.8m ² /L @ 1.0mm DFT	
Resistant to Chemicals	Sodium 10% HCL Alkalis	No Effect No Effect No Effect

APPLICATION DETAILS

Surface Preparation:

Substrate should be sound, clean and free from dirt, dust, laitance and all loosely adhering particles. Absorbent cement based surfaces should be thoroughly saturated with water to achieve surface saturated dry condition. All cracks larger than 1mm should be filled with cement base concrete repair.

Application:

Apply 2 coats of PLY-SHIELD 704 at 0.5-1.0mm per coat thickness directly to be prepared substrate after mixing the PLY-SHIELD 704 with a slow speed mixer, then apply it using a notched trowel and spread the product evenly over the area. Apply two coats in order to avoid pinholes.

Method of application:

- 1- Thinning by 10% Xylene based testing
- 2- For large volume mixing use a low speed drill and mix it for 3min

Curing:

- 12hr Touch Dry
- 24-36 hr partial curing subject to water testing
- 7 days full curing from the date of final application.

EXPORT ORDERS: Product size and packaging may change slightly to accommodate export shipping requirements.
WARRANTY: We warrant our materials to be of good quality and will replace materials found defective, providing however, that the buyer shall examine the materials when received and promptly notify use of any defect before the materials are used or incorporated into a structure of which they are intended. Unless otherwise agreed to in writing, this warranty shall extend only to comply with specifications of materials manufactured and published by PLYDEX Company and made available to the buyer at request. We cannot warrant nor in any way guarantee particular methods, use or applications and performance, nor can we warrant that the materials will be suitable for any intended use. This warranty is in lieu of all others expressed or implied and may not be extended representatives, written sale information or drawings, nor do our distributors or salesmen or any representatives of distributors or of this company have any authority to extend any guarantee beyond that outlined above or to waive the limitations of the seller's liability.

