LayPur

POLYURETHANE COAT

PRODUCT DESCRIPTION: LayPur is a two component, abrasion resistant polyurethane finish coat. It is formulated from an all aliphatic, light stable polymer which allows for a wide range of UV stable colours. LayPur posseses high tensile strength as well as excellent balance of elongation, hardness and abrasion resistance, resulting in long term wear and impact protection. The dense finish is also resistant to staining and dirt pickup, which aids in cleanability.
LayPur is an extended pot life system designed for use with standard airless spray equipment as well as brush or roller.

USES: LayPur was developed as a topcoat for protecting steel and concrete surfaces from degradation caused by normal weathering and ultraviolet exposure.
LayPur provides a semi-gloss, wear resistant finish for pedestrian and vehicular traffic decks, recreational areas, walkways, patios and balconies. It is also used to protect primed wood, steel, fibreglass, polyester and concrete.

ADVANTAGES: LayPur is more resistant to severe abrasion than most other rubber linings and coatings.
LayPur is Weather resistant when tested in accordance with ASTM G 53
and accordance with ASTM B 117.
No Water Absorption when tested in accordance with ASTM D 543, ASTM D 412.
Excellent Chemical Resistance to:
Salt Solution
Gasoline
Unleaded Gasoline
Gasohol
Diesel
Motor Oil

LIMITATIONS: LayPur should not be applied when the ambient temperature is below 50 Deg.F. (10 Deg.C.) or if rain is anticipated within 24 hours of application.
If thinning is required for application use Xylene solvent sparingly. Clean equipment with MEK or where non-flammable solvent is desired, use Methylene Chloride. Do not leave Methylene Chloride in fluid hoses or pumps for prolonged periods. It can cause swelling and deterioration of hoses and corrosion in the pump.
LayPur components are affected by moisture prior to catalisation and must be protected from moisture contamination. Keep all containers tightly closed during storage. Containers are factory sealed with an inert gas to prevent contamination. After opening and if all components are not to be used, containers must be purged with nitrogen gas or dry air and tightly sealed to protect the components from moisture contamination.

PACKAGING: Packaged in 20 Kg drum.

COLORS: LayPur is available in standard Gray, Sandstone, Brownstone, Green and Red.

APPLICABLE STANDARDS: TYPICAL PROPERTIES (WET)
Mixing Ratio: 7 Parts A to 1 Part B by volume (7A : 1B)
Mixed Useable Pot Life: 24 hours @ 70 Deg.F. (21 Deg.C) 50% R.H.
Solids by Weight (mixed): 70% (+/-3) - ASTM D 2369
Solids by Volume(mixed): 55% (+/-2) - ASTM D 2697.
Dry Time to Walk on: 6 - 10 hours @ 70 Deg.F.(21 Deg.C),50% R.H.
(Higher temperatures & humidity will decrease drying time.)

TYPICAL PROPERTIES (CURED)
Tensile Strength : 3200 (+/- 100)ASTM D 412
Elongation : 200% (+/- 25) - ASTM D 412
Tear Strength : 350 lbs. Per inch (+/-25) ASTM D 1004
Hardness : 90-95 Shore A / 50-55 Shore D (ASTM D2240)
Gloss : 40 (60 Deg.Gardner) Semi-Gloss (ASTM D 523)
Permeance : 4.0 Perms at 12 mils DFT (ASTM E 398)

Low Temperature Resistance : No surface cracks or breaks over cement board or plywood surface, -21 Deg.F. (-30 Deg.C) dropped (Test adapted from National Bureau of Standards).
Abrasion Resistance : 45 mgs. Weight loss after 1000 cycle using CS-17 wheels and 1000 gram weights on Taber Abrader. (ASTM D 4060)

TECHNICAL DATA:

Surface Preparation: Substrate must be dry and clean and free from any dirt, grease, oil, pollution fallout or other foreign contaminants which could interfere with proper adhesion.
Surfaces should be broomed or if necessary pressure washed using biodegradable chemical cleaner, then rinsed thoroughly with clean fresh water and allowed to dry. In some areas special surface preparation, such as solvent wiping and / or priming may be required prior to coating.
Mixing: Mix Part A with Part B at volume ration 7 to 1.
Each component shall be mixed separately prior to combining together. After combining Part B with Part A, power mix for a minimum of 5 minutes to achieve a uniform blend, making sure the Part B is mixed to the bottom of the container.

Application: LayPur can be applied by brush, roller, squeegee or standard airless spray equipment.
coverage rate of 0.4 l/m2 of the combined Part A and Part B will theoretically yield 8.8 mils DFT. Actual gallons required in the
field to achieve the minimum dry mil film thickness will depend upon the surface texture, spray technique of the applicator and weather conditions at the time of application. High wear areas will require additional thicknesses.
When LayPur is applied over existing primed metal, apply coating to a small test area to ensure proper adhesion. Higher build applications or applications directly to concrete, steel, wood or fibreglass will require a minimum of two separate coats. Crosspray techniques shall be used to ensure even coverage. All surfaces must be uniformly coated and free from voids, pinholes and blisters.
Non-skid aggregate, if desired, should be broadcast into the second to last coat. A minimum aggregate size of 30 mesh should be
utilised when broadcasting into the second to last coat. For a finer finish, utilise 60 to 80 mesh aggregate added to the material for the final, roller applied application.

Precautions: Solvents in LayPur are flammable. Use only in a well ventilated area. Keep away from heat, sparks, open flame or lighted cigarettes. Use explosion-proof application equipment.
Avoid breathing of vapour or spray mist. For exterior applications, approved (MSHA / NIOSH) chemical cartridge respirator must be worn. If used indoors, provide mechanical exhaust ventilation as well as air line masks or positive pressure hose masks. Avoid contact with eyes and contact with skin.
Cleaning: Clean with xylene
Storage Life: Shelf Life of Part A and Part B components in unopened containers is six (6) months.
MAINTENANCE: LayPur is maintenance-free and permanent. If damaged, it may be mechanically removed and re-applied.

Email: laymaster@laymaster.net

Ver. 1/2004