TOTAL FLEX 20 PU

ONE COMPONENT ELASTOMERIC POLYURETHANE MEMBRANE

Product Overview

Total Flex 20 PU is an elastic, one component polyurethane membrane designed for waterproofing surfaces that will be covered over with tiling systems (*refer details below*). Total Flex 20 PU is a high solids low solvent membrane suitable for application over concrete and a range of other wet area surfaces. Once cured Total Flex 20 PU forms a tough elastomeric coating providing excellent resistance to a wide range of harsh chemicals. Total Flex 20 PU is moisture curing providing excellent adhesion properties to surfaces it is applied over.

Product Features

- One part - no mixing on site
- Pitch free, low solvent
- High solids >97%
- Good wet to dry film thickness control
- Bubble-free curing
- Provides a semi-self levelling affect upon application
- Good mechanical and chemical resistance
- Very good adhesion to surfaces
- Permanently elastic over a wide range of temperatures
- Approval / Standards Conforms to ISO 11600 F 25 HM; AS4858
- When cured will not re-emulsify, handles permanently wet conditions,swimming pools and ponds

Typical Applications

- Wet area floors for internal and external areas
- Sandwich sealing between old and new concrete slabs
- External floor areas to be finished over with a tile bed, screed or concrete
- Joints in waste water and sewage treatment plants
  (preliminary advice of information to technical department is requested)
- Floor joints in tunnel construction
- Floor joints in working areas and runaways of airports

General Application Details

Surface preparation

Surfaces must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper or hard brush. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent. Pre-cast panels using form-release agents other than polyethylene film must be sandblasted or mechanically abraded and dust free. Structural sheet flooring must be fixed to manufacturer's specifications.
Concrete, mortars and screeds must have cured for 28 days before application.
Porous substrates: concrete, cementitious renders, mortars, brick, etc. are recommended to be primed with solvent based PU primer by using a brush. Before sealing allow a flash off time of at least 15 min. For other primers please confirm with manufacturer.

Membrane application

Recommended application temperatures: 5°-30°C. For easier use or cold weather application we recommend the material to be stored at approximately 25°C prior to use.
Total Seal 40FC or polyurathane sealants are recommended to be used as a fillet at wall/floor junctions as the bondbreaker. Allow to dry before membrane application.
After primer application, Total Flex 20 PU is to be applied in a 2 coat application, applying the 2nd coat in the opposite direction to the first coat.
Can be appleid with a medium/long nap roller or long bristle brush.
Coverage recommended is 1-1.2 litres/m^2. 1x 18.9L pail is to waterproof a minimum of 15m^2.
Do not apply membrane thicker than 1.5mm in one coat. 2nd coat should be applied once the first coat is dried, approximatley 4-8 hours depending on conditions for curing.

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Important Notes

- Tiles are not to be direct fixed to the cured membrane
- Tiling systems are to be laid over screeds covering the membrane
- All screeds applied over the membrane must be laid to falls, reinforced and unbonded to the membrane surface. It is not recommended to fix or adhere any screeds, self levellers or tiling beds directly to the membrane
- Total Flex 20 is NOT to be used in immersed potable water tanks areas
- Total Flex 20 is NOT to be used as an exposed membrane for roof or exterior surfaces
- Not to be left as a trafficable surface
- Total Flex 20 is resistant to chemical spillage by: dilute acids, dilute alkalis, aviation fuels, diesel fuels, lubricant oils, petrol, kerosene, cleansing agents, sea water, lime water
- Avoid contact with alcohol and other solvent cleaners during cure. Do not apply when moisture-vapour-transmission condition exists from the substrate as this can cause bubbling within the membrane
- A vapour barrier primer should be used on surfaces where residual moisture may rise and cause blistering in the membrane surface

Packaging

- 18.9L metal drum

General Technical Data

Drying Times	
Recoat	4-8 hours depends on conditions of curing
Tack Free Time	60-80 mins
Tiling/Topping	24 hours

**Based on normal ambient temperatures of 23°C*

Physical Properties	
Density	1.48 ± 0.02
Solids Content	>97%
Shore A	30
Appearance	Thick Liquid - Grey
Elongation	≥600%
Tensile Strength	≥1.7N/mm2
Elastic Modules at 100%	≥ 0.4
Application Temperature °C	from +5 to +40
Temperature Resistance °C	-40/+90, for short period up 120

Contact Details

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