iKOTE™ MT 40X

HEAT-RESISTANT FAST-CURING HYBRID URETHANE WATERPROOFING COATING

DESCRIPTION

iKote MT 40X is a high strength, 2-component fast curing, hybrid Urethane waterproofing coating. iKote MT 40X is a low viscose highly penetrative coating which upon curing forms a flexible membrane, making it highly suitable for all types of waterproofing applications on all types of substrates. Ikote MT 40X has excellent adhesion on all substrates and can also be applied on wet and damp surfaces.

RECOMMENED APPLICATIONS

- iKote MT 40X is used for waterproofing on the following:
- Roofs, terraces, and balconies
- Existing Bitumen membranes
- On top of PU insulation
- Wet areas, water features like fountains
- Swimming pools
- Water reservoirs
- Metal profile sheets
- Retaining walls
- Lift pits and buried concrete structures
- Planter boxes

MAIN FEATURES

- Good resistance to the ingress of water and vapor
- Excellent adhesion on wet and damp substrates
- High mechanical properties
- High resistance to abrasion
- Fast curing time (60mins @25°C). Can be subjected to foot traffic and external weather conditions after the coating achieves its initial curing.
- Low VOC: Non-hazardous and environmentally friendly
- Durable: Resistant to UV degradation
- Good Flexibility

TECHNICAL PARAMETERS

PHYSICAL PROPERTIES	TEST METHOD	VALUE
Color	-	White/Grey#
Mixed density, [g/l]	ASTM D 1475	0.7±0.05
Solid content, [%]	ASTM D 1353	60±2
Pot life, [hrs.]	-	6
VOC, [g/l]	USEPA 24	<10
Touch dry time, [mins]	-	25
Initial Cure time, [mins]	-	60
Full cure, [hrs.]	-	24
Tensile strength, [N/mm²]	ASTM D 412	≥3
Elongation, [%]	ASTM D 412	≥220
Tear strength, [N]	ASTM D 624	≥10
Solar reflectance, [%]	ASTM C 1549	≥75
Shore A Hardness	ASTM D 2240	45
Water Vapor transmission, [perms]	ASTM E 96	6
Adhesion strength, [N/mm²]	ASTM D 4541	≥1.5
Crack bridging ability, [mm]	ASTM C 836	≥2
Application temperature, [°C]	-	5 to 45
Service temperature, [°C]	-	-5 to 70

All Values are subjected to 5 to 10% variations

SURFACE PREPARATION	Concrete Surface: Loose and unsound concrete should be chipped off and repaired with a suitable polymer modified repair mortar. Sharp edges and protrusions should be levelled off. Use of a suitable industrial grade detergent or degreasing compound is recommended to remove all contaminants like oil, grease, wax etc. from the substrate. Metal Surface: Traces of rust shall be removed. Completely rusted surface shall be replaced. Ensure all joints are riveted properly. PU Foam Surface: Clean the surface of all accumulated dust and remove all loose particle. Bitumen Membrane: Clean the surface of all loose mineral slates, accumulated dust, oil stains.
MIXING	Pour the contents of Part B into the Part A container and mix thoroughly with a proprietary paddle mixer fitted to a drill for 2 to 3 minutes tilla homogenous consistency is achieved.
APPLICATION INSTRUCTION	Application procedure may be vary slightly depending upon the site conditions. The general recommended guidelines for the application of the coating systems are as follows: Pipe Penetrations & Joints: Critical areas like pipe penetrations, corner and overlap joints on metal sheets shall be treated first. Apply the first coat of iKote MT 40X with a brush on all corners and around the pipe penetrations extending up to 200mm on either side. Apply the 2nd coat after the previous coat dries off and embed a fabric reinforcement strip (iMat) on the wet coating. Apply a 3rd coat after the previous coating dries off. Concrete Surface: iKote MT 40X on concrete surfaces shall be applied in 3 coats. Apply the 1st coat at a coverage rate of 0.5lt/m². The 2nd coat shall be applied @0.75lt/m². Embed a Fabric mesh onto the wet coating. The 3rd coat shall be applied after the previous coat dries off at the same coverage rate as the 2nd coat. Metal Surface: iKote MT 40X on metal surfaces shall be applied in 2 coats. Apply each coat @0.75lt/m². The 2nd coat application shall be done only after the 1st coat dries off.
RECOMMENDED THICKNESS	Concrete surface: 2.0Lt/m²/1.5mm DFT (in 3 coats) for Trafficable areas 1.5Lt/m²/1.0mm DFT (in 2 coats) for non-trafficable areas Metal Surface: 1.5Lt/m²/1.0mm DFT (in 2 coats)
LIMITATIONS	• ikote MT 40X should not be applied when the ambient temperature and material temperature is >45°C. • Doing so will affect the open time. • Application shall not be done when rainfall is imminent. • Do not apply over light weight concrete or foam concrete.
CLEANING	Clean all tools immediately with water after use. Hardened materials can be removed mechanically only.
PACKAGING	20lt. Kit (Part A: 19lt. Pail, Part B: 1lt can)
STORAGE	Store under cover, out of direct sunlight and protect from extreme temperatures. The shelf life is up to 12 months when stored as per recommendations and in unopened conditions.
HEALTH & SAFETY	Caution should be exercised while applying the product as it is with any other construction chemical. Protective gloves and safety glasses should be used when handling these products. If accidental eye contamination occurs, wash thoroughly with plenty of water and seek medical advice. If contact with skin occurs, it must be removed before curing takes place.

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