

iKOTE™ MT 50R

Fast-curing Textured Hybrid Urethan Waterproofing Coating

DESCRIPTION

iKote MT 50R is a 2-component fast-curing, textured, hybrid Urethane waterproofing coating for concrete foundations, wet areas and roofs. The hybrid urethane coating is blended with high grade fillers to provide a textured surface, which assists the adhesion of tiles to the cured waterproofing layer. iKote MT 50R has excellent adhesion to most substrates and can also be applied on wet and damp surfaces.

RECOMMENDED APPLICATIONS

iKote MT 50R is used for waterproofing of the following :

- Concrete Foundation.
- Block work damp-proofing.
- Swimming pools.
- Flat and sloped roofs.
- Terraces & balconies.
- Wet areas like toilets, bathrooms, public showers.

FEATURES & BENEFITS

- Good Flexibility .
- High mechanical properties.
- Excellent skid and abrasion resistance.
- Highly durable: Resistant to UV degradation.
- Excellent adhesion to wet and damp substrates.
- Good resistance to the ingress of water and vapor.
- Low VOC: Non-hazardous and environmentally friendly.
- Textured Surface: Provides good adhesion key to cementitious tile adhesives for fixing tiles.
- Fast curing time (60mins @25°C). iKote MT 50R can be subjected to foot traffic and external weather conditions after the coating achieves its initial curing.

TECHNICAL PARAMETERS

Physical Properties	Test Method	Value
Color	-	Black/Green
Mixed density, (g/l)	ASTM D 1475	1.1±0.05
Solid content, (%)	ASTM D 1353	65±2
Pot life, (Hrs.)	-	6
VOC, (g/l)	USEPA 24	<10
Touch dry time , (mins)	-	25
Initial Cure time, (mins)	-	60
Final Cure time, (Hrs.)	-	24
Tensile strength, (N/mm ²)	ASTM D 412	≥3.00
Elongation, (%)	ASTM D 412	≥250
Tear strength, (N/mm)	ASTM D 24	≥8
Shore A Hardness	ASTM D 2240	45
Water Vapor transmission, (perms)	ASTM E 96	6
Adhesion strength, (N/mm ²)	ASTM D 4541	≥2.5
Crack bridging ability, (mm)	ASTM C 836	≥3
Application temperature, (°C)	-	5 to 45
Service temperature, (°C)	-	-5 to 70

All values are subjected to 5 to 10% variations.
Other colors are available on request.

SUBSTRATE 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 leveled 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.
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 till a homogenous consistency is achieved.
APPLICATION INSTRUCTION	Application procedure may vary slightly depending on the site conditions. The general recommended guidelines for the application of the coating systems are as follows: iKote MT 50R must be applied in 2 coats with fibre mesh or geotextile reinforcement embedded into the coating for optimum performance. Critical areas like pipe penetrations and corner joints should be treated first. Apply the first coat of iKote MT 50R with a brush on all corners and around the pipe penetrations extending up to 200mm on either side. A fibre mesh/geotextile fleece must be embedded into the coating whilst it is still in a wet condition. Apply a second coat over it after the previous coat dries off. Then a first coat of iKote MT 50R should be applied on all other areas with a brush or roller at a coverage rate of 0.75 Lt./sq.mtr. The second coat should be applied after the first coat dries off completely and at right angles to the first coat.
RECOMMENDED SPREAD RATE	1.5 Lt/m ² in two coats. Pls refer to our detailed method statement of application.
LIMITATIONS	<ul style="list-style-type: none"> • Application should not be done when rainfall is imminent. • Do not apply over light weight concrete or foam concrete. • iKote MT 50R should not be applied when the ambient temperature and material temperature is >45°C. Doing so will affect the open time.
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. For more details, refer to the product MSDS for information.

Disclaimer: All technical data of this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that because of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. Information on this datasheet is subject to change without notice and should not be used for writing specification. For additional information on specific applications, please contact INNOBIT. The information contained herein, provides recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted based on the contents of this data sheet, or any verbal advice given, unless there is a case of willful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product. Innobit reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request. All values given are subject to 5 – 10% tolerance. #Values achieved within 7 days after casting specimen at 25°C and 50% RH.