

iKote MT R50

FAST CURING TEXTURED HYBRID URETHANE UNDERLAYMENT WATERPROOFING COATING

DESCRIPTION

iKote MT R50 is a 2-component fast curing, textured, hybrid Urethane underlayment waterproofing coating for 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 on the cured waterproofing layer. iKote MT R50 has excellent adhesion on all substrates and can also be applied on wet and damp surfaces.

RECOMMENDED APPLICATIONS

iKote MT R50 is used for waterproofing underlayment for the following applications:

- Swimming pools
- Flat and sloped roofs
- Terraces & balconies
- Wet areas like toilets, bathrooms, public showers

MAIN FEATURES

- Good Flexibility
- High mechanical properties
- Excellent skid and abrasion resistance
- Highly Durable: Resistant to UV degradation
- Excellent adhesion on 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). Can be subjected to foot traffic and external weather conditions after the coating achieves its initial curing.

TECHNICAL PARAMETER

Properties	Test Method	Value
Color	-	Black/Green#
Mixed density, (g/l)	ASTM D 1475	1.1±0.05
Solid content, (%)	ASTM D 1353	80±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	≥2.0
Elongation, (%)	ASTM D 412	≥250
Tear strength, (N)	ASTM D 624	≥20
Solar reflectance, (%)	ASTM E 1549	≥75
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 (cohesive failure of concrete)
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 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 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.
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 upon the site conditions. The general recommended guidelines for the application of the coating systems are as follows: iKote MT R50 shall be applied in 2 coats with fibre mesh or geo textile reinforcement embedded into the coating for optimum performance. Critical areas like pipe penetrations and corner joints shall be treated first. Apply the first coat of iKote MT R50 with a brush on all corners and around the pipe penetrations extending up to 200mm on either side. A fibre mesh/geotextile fleece shall 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 first coat of iKote MT R50 shall be applied on all other areas with a brush or roller at a coverage rate of 0.75 Lt./sq.mtr. The second coat shall be applied after the first coat dries off completely and at right angles to the first coat.
RECOMMENDED THICKNESS	1.5 Lt/m ² /mm thickness Primer coat and 2 coat application at 0.75 Lt./sq.mtr per coat Pls refer to our detailed method statement of application
LIMITATIONS	<ul style="list-style-type: none"> • 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. • iKote MT R50 should not be applied when the ambient temperature and material temperature is >45°C.
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 AND 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.

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.



INNOBIT INDUSTRIES LLC

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www.innobit.me



INNOBIT™

SAFETY DATA SHEET

Dated 02.03.2023



iKote MT R50

Section: 1 - Identification		
Product Name	iKote MT R50	GLOBAL BUSINESS SOLUTION Bangladesh agent Room no: 311, Nawabpur Tower,198-202 Nawabpur Road, Dhaka-1100 Bangladesh. Phone : +880 257164405+88 01916 82 21 06 Web : www.globalbusinessbd.com
Recommended use	Fast Curing Textured Hybrid Urethane Underlayment Waterproofing Coating	
Manufacturer	INNOBIT INDUSTRIES LLC P.O. Box:3350,Umm Al Quwain,UAE	
Telephone	Tel : 800 LEAK (5325) / + 9714 435 7340	
Website	www.innobit.me	

Section: 2 - Hazards Identification

Hazard Classification

EUH 211 (Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist)

Pictograms :



Signal Word : Warning

Section: 3 - Composition/information on Ingredients

Ingredient Name	CAS No #	% Wt
Proprietary Acrylic Emulsion	9003-55-8	25-30
Water	7732-18-5	20-30
Calcium Carbonate	471-34-1	30-35
Titanium Dioxide	13463-67-1	05-10
Non-Hazardous Ingredients	1317-65-3	15-20

Section: 4 - First Aid Measures

Inhalation	In case of inhalation, signs/symptoms may include nasal and respiratory irritation cough, sneezing, headache, and nose and throat pain.
Ingestion	Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting. Rinse mouth with water. If swallowed, give a glass of water to drink. Do not induce vomiting. Seek medical advice.
Skin Contact	Signs/symptoms may include localized redness, swelling, and itching. If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.
Eye Contact	Severe Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. If in eyes, wash out immediately with water. In all cases of eye contamination, it is a sensible precaution to seek medical advice.

Medical attention and special treatment needed.

Treat Symptomatically

Section: 5 - Fire Fighting Measures

Hazards from combustion products:

Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited.

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Personal Protective Equipment (PPE)	
Respiratory Protection	Not necessary. Avoid breathing of vapors, mists, or spray.
Hand Protection	Use impervious, abrasion and alkali resistant gloves (made of low soluble Cr (VI) containing material) internally lined with cotton. Protective gloves to be used must comply with the specifications of Directive 1272/2008 and the standard NS-EN 374. The most suitable glove must be chosen in consultation with the glove's supplier, who can inform about the breakthrough time of the glove material.
Eye Protection	Avoid direct eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles
Skin Protection	Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Gloves made from the following material(s) are recommended: NR/Polyethylene /EVA
Prevention of swallowing	Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water

Section: 9 - Physical and chemical properties

Appearance	Thick Flowing Liquid
Odor/Part	Mild Ammoniac
Flashpoint	Nil
Boiling point	100 Deg C
Solubility in water	Dispersible in water
Evaporation rate	No Data Available

Section: 10 - Stability and Reactivity

Stability	Stable
Materials and conditions to avoid	Strong oxidizing agents, heat, open flame, sparks, direct sunlight etc, Strong acids & Alkalis
Hazardous decomposition products	On decomposition oxides of carbon, hydrogen may generated

Section:11 - Toxicological Information

Not Determined. But product may be toxic and hence recommended to practice appropriate personal and industrial hygiene. Prolonged or repeated contacts may cause sensitization with itching, swelling or rashes on later exposure.

Acute Oral effects	:	No Data available
Acute Inhalation Effects	:	No Data available
Acute Dermal Effects	:	No data available

Section:12 - Ecological Information

Not Determined. Product can be miscible and dispersed in water. But product may be toxic to aquatic organisms and may cause adverse effects in the aquatic environment. Do not allow to enter drains sewers or water courses.

Section:13 - Disposal Considerations

Waste Disposal Method:

Ensure containers are empty before discharging. Dispose of waste product in a permitted hazardous waste

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Precautions for fire fighters and special protective equipment:

Water may not effectively extinguish fire, however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Use water spray to reduce vapors.

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide, foam)

Section: 6 - Accidental Release Measures

Spill unlikely from closed container. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate the area with fresh air. Absorb the spill in vermiculite, dry sand or earth and place into containers. Do not allow spill to runoff to sewer.

Emergency procedures:

If contamination of sewers or waterways has occurred, advise local emergency services.

Methods and materials for containment and clean up:

SMALL SPILLS: Slippery when wet. Avoid accidents, Clean up immediately.

Collect in a container for disposal via special chemical waste collection.

LARGE SPILLS: Slippery when spilt. Avoid accidents,

Clean up immediately. Contain - prevent run off into drains and waterways.

Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

Section: 7 - Handling and storage

Keep away from heat, open flame, pilot lights and other sources of ignition. Avoid eye contact with vapors. Avoid skin contact. Avoid breathing of vapors, mists, or spray. Do not eat, drink, or smoke while using this product. Wash exposed areas thoroughly with soap and water. Use with adequate ventilation. Keep away from the reach of children.

Conditions for safe storage:

Keep container at moderate room temperatures in a shaded, dry, well-ventilated area.

Store out of direct sunlight. Never allow to freeze.

Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling:

Keep out of reach of children. Avoid eye contact and repeated or prolonged skin contact.

Section: 8 - Exposure controls / Personal Protection

Ventilation

For the product at ambient temperatures, use normal ventilation. If in case of difficult breathing provide artificial ventilation and wear suitable mask.

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facility. Local, State or Federal regulation is applicable. Consult regulation authorities before disposal

Section:14 – Transport Information

DOT Classification : Not Regulated to transport – Land/Air/Sea
Proper Shipping Name : Water Based waterproofing coating

Section:15 – Regulatory Information

The components of this product are in compliance with the chemical notification requirements of TSCA

Labeling - Labeling according to EEC directives concerning preparations

Symbol - R Phrase(s) R36/37/38 Irritating to eyes, respiratory system & skin.

S Phrase(s) S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Section:16 – Other Information

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

This MSDS does not substitute the user's own responsibility to carry out an assessment of work place risks as may be required by Health and Safety Legislation. This document summarizes to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since INNOBIT cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their INNOBIT representative at the contact details on page 1.

INNOBIT's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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