

iKOTE™ AC 40

High Grade Flexible Acrylic Waterproofing Coating

DESCRIPTION

iKote AC40 is a high grade, flexible, single component, acrylic polymer based waterproof coating for roofs and exposed concrete structures. The coating is UV resistant and is durable to long term weathering effects.

RECOMMENDED APPLICATIONS

- Flat and sloped concrete roofs
- Corrugated metal roofs
- Balconies and Terraces
- Protective coating on exposed concrete structures against the ingress water and vapor
- Protective layer over Polyurethane foam insulation on roofs

MAIN FEATURES

- Good adhesion on concrete, metal, wood, and Polyurethane surfaces
- Low VOC. Non-hazardous. Can be applied in confined spaces
- High Durability: Resistance to UV degradation. Remains flexible for longer duration of time
- Crack bridging ability up to 3mm

TECHNICAL PARAMETERS

Physical Properties	Test Method	Value
Color	-	White/Grey
Density, (g/l)	ASTM D 1475	1.25±0.05
Solid content, (%)	ASTM D 1644	53±2
Tensile strength, (N/mm ²)	ASTM D 412	2
Elongation (%)	ASTM D 412	250
Crack Bridging, (mm)	ASTM C 836	≥ 2
Adhesion to concrete, (N/mm ²)	ASTM D 4541	≥ 1.5
Water penetration @1bar	BS EN 12390	Pass
UV Resistance @100hours	ASTM G 154	Pass
VOC, (g/l)	ASTM D 3960	<10
Touch dry time @25°C, (Hrs.)	-	≤2
Final Cure, (Days)	-	7
Application temperature, (°C)	-	5 to 45
Service Temperature, (°C)	-	-5 to 90

All Values are subjected to 5 to 10% variations

APPLICATION INSTRUCTION

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. Recommended guidelines for the application of the coating system is as follows:

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.

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 particles

PRIMING	A primer coat is recommended when applying the coating over porous substrates. The priming coat can be prepared in the site by mixing iKote AC40 with clean potable water in the ratio of 1:1. Apply the primer coat on the surface and allow it to dry. Highly porous substrates may require two layers of primer. A recoat of the primer would be required if the topcoat application gets delayed by more than 24 hours.
PLACING	Prior to application, the pail shall be mixed thoroughly with a proprietary paddle mixer to ensure a homogeneous consistency of the material. iKote AC 40 can be applied by soft bristled brush or roller. On large areas, the coating can be applied by an airless spray. Apply the first coat of undiluted material at a coverage rate of 1Lt/m ² /coat to get a Dry Film Thickness of 0.5 mm. Application of the second coat shall be done only after the previous coat dries completely. Second coat application should be done at right angles to the first coat and at the same coverage rate, to ensure a full unbroken coating to the substrate. Whilst the first coat is still in a wet condition, a non-woven fabric shall be embedded into the coating in all corner joints and pipe penetrations as a reinforcing strip. Membrane can be embedded into the first coat whilst it is still in a wet condition. Allow the coating to cure fully (7 days) after which it can be exposed to traffic.
COVERAGE	1lt/m ² /coat for 0.5mm DFT. Minimum 2 coats required to achieve a DFT of 1mm.
CLEANING	Clean all tools immediately with water after use. Hardened materials can be removed mechanically only.
PACKAGING	20 LTR. pails
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.