irathanefutura

TECHNICAL DATA SHEET - IRABOND BC50

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PRODUCT DESCRIPTION

A water based two component VOC free ambient temperature applied epoxy primer system designed for use on concrete.

RECOMMENDED APPLICATIONS

Suitable for use on both dry and damp concrete structures.

FEATURES

- Zero VOC's
- Easy application by roller

PACKAGE SIZE

2.5L and 10L

PRODUCT DATA

PHYSICAL PROPERTIES	
COLOUR	R Component is Clear H Component is Opaque / White Mixed product is Opaque / White
MIX RATIO BY VOLUME	33R : 67H
MIX RATIO BY WEIGHT	36R : 64H
WATER ADDITION AS % OF MIXED PRODUCT	30-60
% SOLIDS BY VOLUME (as supplied)	65-70
WORKING LIFE AT 10ºC (Hours)	3
WORKING LIFE AT 20ºC (Hours)	2
WORKING LIFE AT 30ºC (Hours)	1.5
TEMPERATURE RESISTANCE (ºC)	Maximum 65
COVERAGE	7-10m²/L

APPLICATION INFORMATION

SURFACE PREPARATION

New concrete must be at least 28 days old prior to commencing any coating operations. Proper surface preparation is essential to achieve the full potential of the system. Consult the relevant method statement for the application / substrate in question. Product should only be applied in conditions where the Temperature is >3ºC above the dew point, Relative Humidity is <85% and conditions are drying, ie increasing temperature or at least falling humidity.

MIXING

Prior to commencing use of the product ensure that the two components are stored a temperature of no lower than 10ºC, this can be achieved by some means of indirect heating with warm water or in a heated room. Thoroughly mix the Hardener prior to use. Transfer all of the H component into the R component and mix thoroughly using a variable speed mixer with a spiral or jiffy type mixer paddle taking care not to mix air into the product. Mix the product until homogeneous stopping briefly to scrape the sides of the container with a long bladed spatula to ensure there is no unmixed product. At this point it is possible to add the desired amount of water, typically an additional 30% of the mixed product volume so for a 10L kit 3L of water or a 2.5L kit 0.75L.

DO NOT BREAK DOWN KITS

APPLICATION

Primer application should be made preferably within 24 hours of substrate preparation. Any standing water should be mopped dry and whilst BC50 is tolerant to some surface moisture conditions must be drying at time of application to ensure proper cure.

On horizontal and vertical surfaces the product can be applied by roller.

If surface temperatures are < 5ºC then the application should not proceed. If surface temperatures are <10ºC then warm air heating can be used to facilitate cure. In an enclosed tank situation forced airflow is essential to exchange the air thus removing moisture to facilitate the curing process and preventing condensation.

Review the appropriate method statement for detailed application instruction.

CURE

Cure times are quoted in the table below and apply only to the primer stage. Consult specific system coat datasheets for final system cure information. The BC50 must be colourless and tack free before overcoating.

SUBSTRATE TEMPERATURE	10ºC	20ºC	30ºC
RECOAT TIME MINIMUM (HOURS)	16	10	6
MAXIMUM WITHOUT REACTIVATION (HOURS)	60	48	32
FRESH COAT OF BC50 REQUIRED (DAYS)*	2.5-7	2-5	1.5-3
REPREPARE SURFACE AND REPRIME (DAYS)	>7	>5	>3

** This can only be done once, if the overcoat window is exceeded a second time then the surface must be reprepared.*

CLEAN UP

All equipment should be thoroughly cleaned directly after use using water.

SHELF LIFE & STORAGE

A shelf life of 12 months from date of shipment can be expected when stored at room temperature (22ºC) in their original containers.

PRECAUTIONS

For complete safety and handling information, please refer to Material Safety Data Sheets prior to using this product.

WARRANTY

ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control we can accept no liability for the results obtained.

DISCLAIMER

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.
For further product information or technical assistance please call +353 61 771 500.