

# HEAT EXCHANGE PAINT D-47

## A SINGLE LIQUID WATER BASE PAINT FOR THE SURFACE WITH HEAT EXCHANGE

IMPORTANT! DO NOT OPEN CAN WITHOUT READING INSTRUCTIONS.

### DESCRIPTION

Heat exchange paints Tough Coat D47 reduce surface heat caused by solar radiation. Its proprietary materials in a layer consume heat energy from the solar radiation as kinetic energy. It will save energy for cooling buildings as well as it will reduce urban heat island effects.

D47 is not reflection paint. Therefore, varieties of colors are available for your choice. It will not be affected as much by environmental debris or scratches on the surface. It will not release solar heat to surrounding.

D47 can be applied to asphalt, rubber chip, concrete, pavement, exterior ceiling and wall as top coat. It can be painted as easy as regular paints for top coat.

### BENEFITS

- 1) It is safe and easy to work because it is aqueous and a single liquid type.
- 2) It has great wear resistance even though it is single liquid type.
- 3) Painting work can be shorter, and bring quick opening of transportation for public.
- 4) It can be used for exterior wall and side walk since it has great adhesion to asphalt and concrete.
- 5) It's possible to have any deep color paint.
- 6) The effectiveness of heat exchange could not be reduced even though the paint surface gets some dirt or flaws.

### PREPARATION

Please stir firmly before painting in case of that color pigment would sediment when storing.

Surfaces should be sound, dry and clean. Remove previous coatings that have poor adhesion. Wash areas where mold and mildew are present. Remove all dirt, oil, grease, wax and/or other contaminant. Repair cracks and fill voids. Clean and prime all metal surfaces with an appropriate primer.

-Warning-

•0.3kg/m<sup>2</sup> should be standard as amount of coating. Thickness should not be thick since heavy thickness/time would leave problems, such as hair cracking, bubble and so on.

### Specifications

Color: Green, Brown, Blue, Gray, Cream and etc.

Finish: Flat

Composition: Acrylic resin/Silica

Density: 7.44# per gallon

N.V.: 50(%)

Diluents: Water

Clean-Up: Neutral soap and water

Wear resistance: 0.14g

Specific Gravity @25°C 0.85g per cm

Adhesion force: 0.5N/mm<sup>2</sup>

Viscosity: 200mPa. s/25degree

VOC: None

Flash Point: N/D

Coverage: 0.15kg/m<sup>2</sup> X 2

\*Coverage depends on porosity and profile of surface

Dry Time: Touch- 40min.@5°C, 10min.@30°C

Recoat- 2hours

Storage: Store indoors 5°C—40°C

Freeze/Thaw stable: Yes

## APPLICATION

Asphalt/Rubber chip/Concrete/Pavement/Exterior Ceiling and Wall/a wide range of other applications  
The running cost of air condition could be reduced by painting D-47 on exterior walls and roofs of buildings, factories, warehouses and apartments. (To realize reduction of CO2)

D-47 could prevent from the urban heat island effect by painting on roads and pavements. (To reduce temperature at night)

D-47 could make the surface of painted subjects cooler. (To walk around on bear feet)

## EQUIPMENT:

Airless Spray/Brush/Roller

## DRY TIME

Dry to touch in 40min.at 5 degree and 10min.at 30 degree. Dry to recoat in 2 hours. Additional dry time is needed in cooler temperatures or high humidity.

## CLEAN UP

Clean spills and drips up with liquid detergent and warm water. If spills or drips have dried use denatured alcohol or ammoniated detergent to soften and remove primer. Wash immediately after use. If dried on tools let soak overnight in a solution of equal parts ammoniated detergent and water. Scrub bristles clean with a wire brush. Follow manufacturer's instructions when cleaning spray equipment.

## DISPOSAL

Dispose of unused or unwanted product in accordance with local laws regulating water-based coatings.

## STORAGE

Keep lid tightly closed during storage.

Keep from freezing. If contents freeze, thaw to room temperature before using.

Keep away from children. Do not take internally. Avoid inhalation of spray or prolonged skin contact.

### Warranty

Tough coat D-47 is guaranteed to perform as indicated when applied according to label directions to a properly prepared surface. Directions are as complete as possible but cannot encompass all conditions, applications, and/or surfaces beyond manufacturer's control. The contents of the container are warranted to be free from any other defect for 2 years from the date of manufacture. All warranties and guarantees are limited to refund or replacement of product used with proof of purchase. This warranty does not include labor or costs associated with labor for the application of any product. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state. No other warranty or guarantee is expressed or implied.

### WARNING!

If your scrape, sand or remove old paint, you may release lead dust. LEAD is TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead information Hotline.

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of Alba Industry.