

# ENIFIX ECO 4050® (Water Based Non-Flammable Adhesive)

ASTM  
E-84

## Description

**ENIFIX ECO 4050** is a water based, zero VOC adhesive specially developed for HVAC ducting, Chilled water piping and underdeck insulation applications in the HVAC industry. ENIFIX ECO 4050 is based on a very special type of synthetic resin, with very high-performance additives, fine grade mineral fillers and tackyfier. ENIFIX ECO 4050 is non-flammable when wet and fire-resistive when dry.

## Features

- Low Flame spread and Smoke developed
- Excellent Bonding and Peel Off Strength
- Solvent Free Synthetic Elastomer Emulsion
- High Compatibility with Insulation Fiber & Fabric
- Excellent Coverage
- Weather Resistant
- Heat Resistant
- UV Resistant
- Non-Toxic

## Recommended Applications

ENIFIX ECO 4050 is recommended for insulating HVAC Ducts with Nitrile Rubber, Glass wool, Rock Wool and Chilled Water piping with Glass Wool & Rock Wool. ENIFIX ECO 4050 can also be used for Under deck insulation with Nitrile Rubber, Glass Wool, Rock Wool & PVC Jackets.

## Confirm To

- Conforms to ASTM E 84 test standard
- LEED IEQ 4.1, Low Emitting Materials, Adhesive & Sealants (VOC <50 g/ltr)
- Free of asbestos, lead, and mercury compounds

## Specific Technical Data

Properties	Result
Colour	Light Green   Cream
Physical form	Thixotropic Paste
Specific Gravity (at 25°C)	1.15±0.10 kg/ltr
Solids Content	68±3 %
Viscosity (at 25°C)	25000-50000 cps
Flash Point	No Flash to >100°C
VOC Content	Meets requirements for LEED IEQ 4.1, Low Emitting Materials, Adhesive & Sealants.
VOC	<50 g/ltr
Drying Time	Set to Touch: 5 to 15 Minutes
Dry Through	10 to 60 Minutes(Ambient temperature dependent)
Service Temperature	Minus 25°C to 100°C
Coverage	7 - 9 m <sup>2</sup> /Ltr (Depend on the surface)
Application	Brush, spray, or roller

## Surface Preparation

The surface should be structurally sound, clean, dry, leveled, and free from dust, curing compounds, grease, and other loose debris. Keep container closed when not in use.

### Application Procedure

For wet bond application apply ENIFIX ECO 4050 uniformly on the metal surface at 7-9 m<sup>2</sup>/liter. While wet, apply pressure to assure intimate bond.

For contact bond application apply ENIFIX ECO 4050 on both substrates. For faster tack development & good bonding, thin layer of adhesive is mandatory. Allow the adhesive to tack fully and allow the moisture to evaporate for 20 to 30 minutes, depending on the local environment. Position the two mating surfaces together and apply pressure to assure intimate bond.

### Packaging

20 kg Plastic Pail

### Storage

12 months from date of manufacturing in original unopened containers.

Store product between 5°C to 35°C for maximum storage life. Store in a dry place, away from sunlight and moisture. Higher temperatures reduce normal storage life. Lower temperatures may cause an increased viscosity of a temporary nature. Rotate stock on a "first in-first out" basis. Keep container tightly closed when not in use.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

### Cleaning

Clean tools immediately after use with water or white spirit if the material has dried.

Immediately remove any adhesive from the surface of the floor covering with a damp cloth.

### Health & Safety

As with all chemicals, caution should always be exercised

Consult Material Safety Data Sheet and container label for further information.

**For professional use only. Keep out of reach of children.**

Due to continuous product improvements, the data mentioned in the TDS is subject to change without prior intimation. All recommendations and suggestions are therefore made without guarantee. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.