Adherant 1051

Adhesion Promoter

GENERAL INFORMATION

Adherant 1051 can be improved adhesion of organic resins to inorganic surfaces.

CHEMICAL & PHYSICAL PROPERTIES

Composition	epoxy silane
Appearance	clear liquid
Specific gravity	1.045 - 1.075
Refractive index	1.4265 - 1.4290 (25 °C)

These are typical properties not to be used for specification purposes.

APPLICATIONS

- Paints, inks : epoxy, alkyd, PU, acrylic, silicone etc.
- Substrates : glass, aluminium, copper, steel etc.
- Others : adhesive, elastomer, sealer etc.

KEY PROPERTIES

Improved bonding at the organic/inorganic interface:

Improved adhesion

Enhanced Performance Through Applied Innovation

- Increased composite wet and dry tensile . strength, flexural strength and modulus
- Increased wet and dry compressive strength
- Better appearance
- In surface treatment:
- Provides better filler wet-out and dispersion
- lower viscosity of filled liquid resins .
- Improved process ability

INCORPORATION

For use as a primer, 49.5 parts of Adherant 1051 and 0.5 parts of an organic amine are diluted with about 950 parts methanol, isopropanol or ether glycol. Alternatively, a pre-hydrolyzed primer may be prepared by adding 5 parts water and 1,000 parts of the above primer solution. In both cases. the primer solution is applied to a solid surface such as glass or metal and a polymer is heat pressed or cured on the surface.

LEVELS OF USE

Adherant 1051 can be added directly to resin systems at 0.5 to 2.0% to promote unprimed adhesion.

HEALTH AND SAFETY

The product requires special care in handling. Avoid any eye and skin contact.

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

Keep away from sources of ignition and heat, as well as container tightly closed in a dry and well-ventilated place.

Stored between 0 °C to 40 °C.

SHELF LIFE

Adherant 1051 has a shelf life of 3 (three) years from date of manufacture.

QUALITY ASSURANCE

Asia

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

Tel.: +86 21 5774 0348 Fax: +86 21 5774 3563

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

© Copyright 2018, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

® Trademark of Elementis Specialties, Inc.

North America Elementis 469 Old Trenton Road East Windsor NJ 08512. USA Tel.: +1 609 443 2500 Fax: +1 609 443 2422

Europe

Elementis UK Ltd. c/o Elementis GmbH Stolberger Strasse 370 50933 Cologne, Germany Tel.: +49 221 2923 2066 Fax: +49 221 2923 2011

Deuchem (Shanghai) Chemical Co., Ltd. 99, Lianyang Road Songjiang Industrial Zone Shanghai, China 201613

V01 Feb. 2018

www.elementis.com