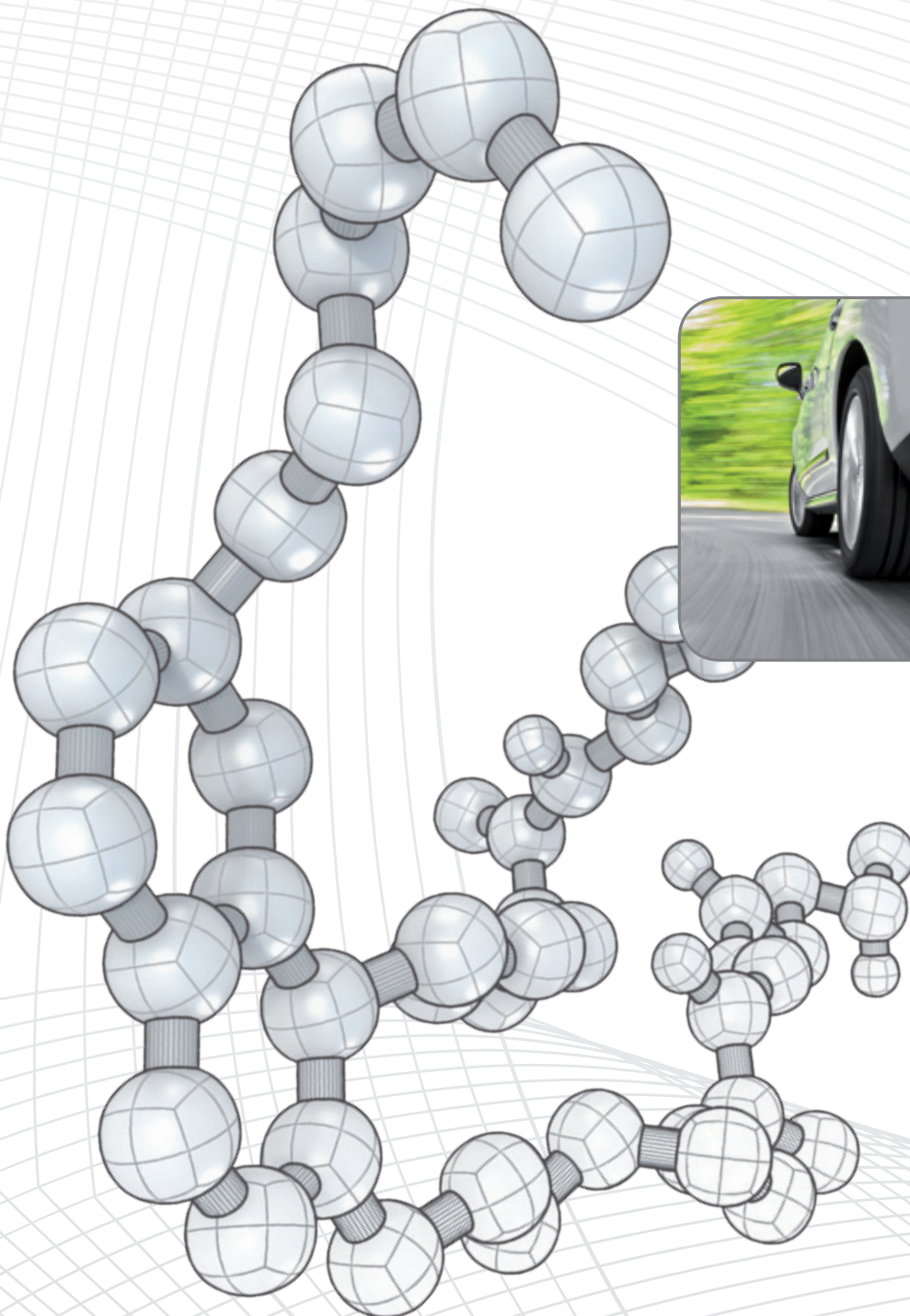


Advanced Materials

Polyamidoamines for PVC plastisols

Selector guide
for adhesion
promoters



<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Euretek®

Adhesion promoters
for PVC plastisols

Additives for adhesion improvement

Euretek® adhesion promoters are highly efficient additives for adhesion improvement of PVC plastisol coatings to different substrates especially to electrodeposited-coated and uncoated metals.

Euretek® adhesion promoters are medium to high molecular weight polyamidoamines which result from the reaction of dimerized fatty acids and polyamines. Several Euretek® adhesion promoters are pre-formulated in order to modify or adapt performances and/or processing capabilities.

One of the main applications of Euretek® adhesion promoters is found in the automotive industry where PVC plastisols are mainly used as stone chip underbody coatings and sealants for seams and hem flanges. Processing of Euretek® adhesion promoters is easy as they present low to medium viscosity at room temperature and are compatible and easily mixed into the PVC plastisol.

The resulting preparation is sprayed or coated onto the metallic substrate. The coating is then stoved at temperatures between 120°C to 180°C depending on the type of application and plastisol formulation. With a small amount of 1% to 2% of Euretek® adhesion promoter in the PVC plastisol, very good adhesion can be achieved even at a low stoving temperature. The adhesion promoter also improves the plastisol rheology and the gelation properties (kinetic) of the plastisol.

Efficiency in adhesion improvement

- > At low loading
- > With most corrosion protection coatings
- > On several uncoated metals

Easy processing

- > High compatibility with PVC plastisol formulations
- > Helps to modify the rheology profile of the plastisol
- > Plays a positive role on the gelation kinetic of the plastisol

With a wealth of experience behind them, Huntsman's technical support specialists can help you to identify the right Euretek® product and to define or adapt the proper processing conditions.



Adhesion promoters for PVC plastisols

Product designation	Characteristics	Viscosity	Amine value	EEC labelling	Color	Key properties
Unit / scale		Pa·s	mg KOH/g		Gardner	
Euretek® 3607	Polyamidoamine preparation	9.0 - 19.0 at 25°C	220 - 245	free	< 12	Low viscosity, very good adhesion
Euretek® 505	Polyamidoamine	1.0 - 1.5 at 75°C	380 - 400	Xi	< 12	Well-balanced property profile
Euretek® 514 S	Polyamidoamine preparation	2.9 - 3.1 at 75°C	237 - 253	Xi	< 12	Very good rheological properties
Euretek® 531	Polyamidoamine preparation	12.5 - 22.5 at 25°C	180 - 210	Xi	< 12	Well-balanced property profile
Euretek® 545	Polyamidoamine preparation	1.0 - 2.5 at 75°C	350 - 380	Xi	< 14	Very good adhesion
Euretek® 549	Polyamidoamine preparation	5.0 - 9.0 at 50°C	265 - 305	Xn	< 12	Low viscosity, very good adhesion

Application property profile

Product designation	Adhesion	Rheology	Discoloration of the plastisol	Compatibility	Humidity resistance	Overcoating
Euretek® 3607	● ● ●	●	●	●	●	●
Euretek® 505	● ●	●	●	● ●	●	● ●
Euretek® 514 S	●	●	● ●	● ●	●	●
Euretek® 531	● ●	●	● ●	●	●	●
Euretek® 545	● ● ●	●	●	●	● ●	●
Euretek® 549	● ● ●	●	●	●	● ●	●

- ● ● Excellent
- ● Good
- Moderate

Huntsman Advanced Materials

Our Advanced Materials division is a leading global chemical solutions provider with a long heritage of pioneering technologically advanced epoxy, acrylic and polyurethane-based polymer products.

Our capabilities in high-performance adhesives and composites, delivered by more than 1 600 associates, serve over 2 000 global customers with innovative, tailor-made solutions and more than 1 500 products which address global engineering challenges.

Global presence – 13 manufacturing sites



HUNTSMAN

Enriching lives through innovation

For more information

www.huntsman.com/advanced_materials
advanced_materials@huntsman.com

Europe, Middle East & Africa

Huntsman Advanced Materials (Switzerland) GmbH
Klybeckstrasse 200
P.O. Box
4002 Basel
Switzerland
Tel. +41 61 299 1111
Fax +41 61 299 1112

Asia Pacific & India

Huntsman Advanced Materials (Guangdong) Co., Ltd.
Room 4903-4906, Maxdo Centre,
8 Xing Yi Road,
Shanghai 200336,
P.R.China
Tel. + 86 21 2325 7888
Fax + 86 21 2325 7808

Americas

Huntsman Advanced Materials Americas Inc.
10003 Woodloch Forest Drive
The Woodlands
Texas 77380
USA
Tel. +1 888 564 9318
Fax +1 281 719 4047

Legal information

All trademarks mentioned are either property of or licensed to Huntsman Corporation or an affiliate thereof in one or more, but not all, countries.

Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. or Huntsman Advanced Materials (Guangdong) Ltd. ("Huntsman"). The following supercedes Buyer's documents. While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES. No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Data and results are based on controlled conditions and/or lab work. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. Buyer should (i) obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, (ii) take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product and (iii) comply with and ensure that its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product comply with all safety information contained in the applicable Material Safety Data Sheets, Technical Data Sheets or other instructions provided by Huntsman and all applicable laws, regulations and standards relating to the handling, use, storage, distribution and disposal of and exposure to the Product. Please note that products may differ from country to country. If you have any queries, kindly contact your local Huntsman representative.

© 2015 Huntsman Corporation. All rights reserved.
Ref. No. PAA Adhesion promoters selector guide 04.15_EN_EU



Registered for
REACH