



Pliotec HDT12

Water-based resin for Direct-To-Metal (DTM) coatings, from high gloss enamels to anticorrosive primers

Pliotec HDT12 unique modified acrylate copolymer provides excellent adhesion to ferrous and non-ferrous metals, and superior water resistance, delivering corrosion protection for metal even without the use of anticorrosive pigments.

Typical Properties

Chemistry Type	Styrene-acrylic colloidal dispersion
Solids (by weight)	50 %
pH	8.0
Solvent or Water Based	Water
Ionic Character	Anionic
Color	White
Appearance	Milky
Physical Form	Liquid
Tg Onset	23 °C
Tg Midpoint	28 °C
Brookfield Viscosity	250 cps (LVT #2 spindle, 60 rpm @ 25 °C)
Density	8.76 lb/gal
Specific Gravity	1.05
Mechanical Stability	Excellent
Block Resistance	Good
Resistant to	<ul style="list-style-type: none"> Water Alkali

Key Advantages

- Superior corrosion resistance through innovative hydrophobic dispersion technology
- Excellent adhesion to ferrous and non-ferrous substrates
- No need for anticorrosive pigments
- Good gloss retention
- Non-yellowing
- No added formaldehyde
- Good block resistance
- Freeze/thaw resistant
- Balanced flexibility and hardness

End Use Applications

- Resin/Additive: Anti-Corrosion, Metal Coatings, Architectural Primers, Masonry Coatings, Interior Paint, Exterior Paint, Roof Coatings, Chemical Resistance, Industrial Steel and Metal Primers

Additional Application and Processing Information

Substrate Recommendations	Metal and multi-surfaces
Film Formation Mode	Coalescence
Minimum Film Forming Temperature	20 °C (68 °F)

Storage & Handling Guidelines

Available Packaging	<ul style="list-style-type: none">• Bulk (Tank Truck)• Bulk (Railcar)• Drums (Plastic)• Totes (IBC)
Freeze / Thaw Stability	This product is freeze-thaw stable; however, a recommended practice is to limit the number of cold cycles.
Handling	<ul style="list-style-type: none">• Avoid vapor or mist inhalation.• Adequate ventilation should be maintained in the processing areas.• Appropriate personal protective equipment should be employed when handling this product.• See Safety Data Sheet (SDS) for additional product information.
Recommended Storage Conditions	<ul style="list-style-type: none">• Store in a dry, well ventilated area.• Keep container tightly covered when not in use.• Do not expose product or container to direct sunlight or to freezing temperatures.
Recommended Storage Temperature	5 - 40 °C (41 - 104 °F)
Shelf Life	12 Months (when stored as recommended)

Geographic Availability

Product Availability

- North America
- Latin America
- EMEA (Europe, Middle East, Africa)
- China
- Asia (Excl. China)
- South Pacific

NOTE: Although the data supplied above is believed to be accurate, each user is advised to make an independent determination as to whether the described product is appropriate for a particular use or application, whether such use will comply with all applicable laws or regulations, and whether such use will infringe the intellectual property rights of third parties.



World Headquarters

25435 Harvard Road
Beachwood, OH 44122
PHONE +1 216 682-7000
FAX +1 216 453-0108
CUST. SRVC +1 888 253-5454
EMAIL pccustserv@omnova.com

Europe / Middle East / Africa / India

14, avenue des Tropiques
Z.A. de Courtaboeuf 2 -
Villejust
91955 Courtaboeuf Cedex
France
PHONE +33 (0) 1 69 29 27 00
FAX +33 (0) 1 69 29 27 01

Asia Pacific

Unit 01-03, 8th Floor,
Building A,
SCG Huihao Tower
88 Gu Jing South Road,
Xu Hui District
Shanghai 200235, China
PHONE +86 (21) 6473 2525
FAX +86 (21) 5421 1766

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