

BONDERITE M-NT 1455-W

Known as Bonderite 1455-W Wipes
July 2017

PRODUCT DESCRIPTION

BONDERITE M-NT 1455-W provides the following product characteristics:

Technology	Surface treatment
Application	Surface coating with corrosion protection and improved adhesion.

BONDERITE M-NT 1455-W is a chromium free and water-based corrosion protecting surface treatment for metals like aluminum, zinc, zinc alloy, cold- and hot rolled steel, stainless steel, galvanized, sand basted and armor plate surfaces.

The corrosion protection in BONDERITE M-NT 1455-W separates the surface of the above mentioned types of metals. The converted surface provides an excellent base for organic finishes, paint, sealers and most adhesives.

This reaction greatly enhances adhesion and corrosion resistance of subsequently applied paints (including primer when multiple coat systems are used), sealers and adhesives.

BONDERITE M-NT 1455-W conversion coating process is a dry-in-place application and does not require subsequent cleaning.

TECHNICAL DATA

(as supplied):

Concentration	Ready to use wipes
Application	Wet the surface by wipe on
Evaporation time	min. 1 minute
Open time	max. 15 minutes
pH-value	2.6
Application temperature	20 to 40 °C

DIRECTION OF USE

Preliminary Statement:

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Application:

Treating metal surfaces with BONDERITE M-NT 1455-W is the last step before starting with sealing, bonding or paint process.

The complete process sequence consists of the following steps:

1. All bare metal surfaces to be converted with BONDERITE

M-NT 1455-W must be dry and free from grease, oil and other foreign matter before pre-treatment. Abrasive cleaning is acceptable method of surface preparation where scale or corrosion particles exist. Afterward thoroughly clean and prepare the metal surface using TEROSON VR 10 / VR 20. Follow the application instructions as recommended by Henkel. This is due to Conversion coating can be influenced in a negative manner.

2. Wipe the clean and dry surface with BONDERITE M-NT 1455-W. Use slightly over lapping vertical and horizontal, even with slightly application pressure. Make sure the entire bare metal surface is wetted with fluid. The surface should remain wet for minimum one minute under wiping movements for the chemical reaction. If handling of the dried, treated work is necessary, operators should wear clean, lint free paint gloves so that the treated surface is not contaminated. If the treated surface becomes damaged or re-contaminated, go back to the first step above.

Drying time should be at least five minutes. Latest after 15 minutes, the following coating process should be done.

To use only on bare metal surfaces.

Do not use on paint, paint primers, 1K, 2K, residual paint coatings and plastic parts. Not to be used under and on Polyesterfillers.

3. Allow the wetted surface to dry at ambient temperature.

4. Within 15 minutes apply paint, sealer or adhesive over the dry and converted surface. It is necessary to complete the painting, sealing or adhesive bonding operation. Make sure that all treated surface is covered.

Storage:

Recommended Storage Temperature, °C	10 to 25
Shelf-life, months (in unopened original packaging)	24
Frost-Sensitive	yes

Storage requirements:

Store product in the unopened container in a dry location. Always reseal the wipe package immediately after removing BONDERITE M-NT 1455-W. BONDERITE M-NT 1455-W should be protected from freezing. If the chemical is frozen, it will be irreversibly damaged and should not be used. When BONDERITE M-NT 1455-W get in contact with the pre-treated surface it could be polluted with surface contamination. To ensure an optimal corrosion protection, the Wipes should be used only once. Wipe that are accidentally allowed to dry out completely should not be remoistured by adding water to the package; dried out wipe should be discarded. To keep wipes moist, reseal any opened package of BONDERITE M-NT 1455-W using the zip lock closure feature on the package. If free fluid accumulates in the bottom of the wipe package, vertically rotate the package 90° and roll the pack a few times around its own

axle, the free fluid is re-absorbed by the less moist portion of the unused wipes.

Classification:

Please refer to the corresponding **Material Safety Data**

Sheets for details on:

- Hazards identification**
- Transport information**
- Regulatory information**

ADDITIONAL INFORMATION**Disclaimer****Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage: [Except as otherwise noted] All trademarks in this document are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S. and elsewhere.

Reference 0.6