

TEROSON[®]

TEROSON ET CR Heatingbox 2CR

Order Code: IDH 211556

Operating Manual





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The 2-pipe cartridge preheater is CE-compliant in accordance with the applicable directives and regulations. The standards and guidelines applied are listed in the Declaration of Conformity.

Translations of the original operating instructions are indicated in the respective operating instructions that this is a translation of the original operating instructions. The translations of the original operating instructions are stored on the USB stick. The English version of the User Manual is the original master document. All other languages have been translated from English.

USA (1) 860-571-5174

Germany (49) 800-1003170

Singapore (65) 6266-0100

China (86) 21-2891-8547

Henkel AG & Co. KGaA

Henkelstraße 67

40589 Düsseldorf, Germany

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1 INTRODUCTION

1.1 General Information

This instruction manual contains information and procedures for the safe operation and maintenance of the TEROSON ET CR Heatingbox 2 CR.

Read the user manual for your device before you start transporting, setting up, commissioning or servicing. The user must not start using it until the user has read these instructions and is familiar with all the details.

For your own safety and to protect against injury, read the operating instructions and especially the safety instructions thoroughly and always follow them.

Following the operating instructions is a prerequisite for safe and troublefree operation as well as for the fulfilment of any warranty claims.

The original operating instructions must be available at the place of use at all times.

This device can be used by children aged 8 years and older, as well as by persons with reduced physical, mental or mental abilities or without experience and knowledge, provided that they have been supervised or informed about how to use the device safely and understand the risks involved.

Children are not allowed to use the device.

Children are not allowed to play with the TEROSON ET CR Heatingbox 2 CR.

Children 8 years of age or older are not allowed to perform cleaning and user care.

The operator must adapt the user manual to existing national regulations, e.g. for accident prevention and environmental protection.

The instructions, safety instructions and descriptions listed in this manual do not release the operator and/or user of the TEROSON ET CR Heatingbox 2 CR from his general safety and care obligations when handling technical equipment.

Changes that serve the technical development are reserved.

Printouts are not subject to the change service.

2 SECURITY

2.1 Note and Icons

This instruction manual contains various symbols. The symbols draw attention to possible dangers or point to protective measures.

Warning

The warning symbols are divided into the categories of danger, warning, caution and attention.



Hazards

This symbol indicates an imminent danger. If appropriate precautions are not taken, death or serious bodily injury is the result.



Warning

This symbol indicates a potentially dangerous situation. If appropriate pre-cautions are not taken, death or serious bodily injury can result.



Caution

This symbol indicates a potentially dangerous situation. If appropriate pre-cautions are not taken, injuries can result.



Attention

This symbol indicates a potentially dangerous situation. If appropriate pre-cautions are not taken, property damage can result.

2 SECURITY

2.1 Note and Icons

Always observe the warnings and be particularly attentive and careful during the work steps marked in this way.

Special Hazards For some sources of danger, the warning symbols will be replaced by special pictograms. The division into the categories of danger, warning, caution and caution will be retained.



This pictogram warns of the danger of electrical voltage when working on electrical parts.



This pictogram warns of hot surfaces.



This pictogram indicates that hand protection must be used during activities.



This symbol indicates explanations, the observance of which contributes to a better understanding and optimal work with the TEROSON ET CR Heatingbox 2 CR.

2.2 General principles

- The TEROSON ET CR Heatingbox 2 CR is built according to the state of the art and science, as well as according to the recognized safety regulations. Nevertheless, its use may result in dangers to the life and limb of the user or third parties or impairments of the 2-pipe cartridge preheater and other property.
- For safe operation, read the operating instructions and always observe the safety regulations and hazard warnings.
- Use the TEROSON ET CR Heatingbox 2 CR only as intended (see section 3).
- Only operate the TEROSON ET CR Heatingbox 2 CR if it is technically in perfect condition.
- Immediately eliminate or have eliminated faults that may impair safety.
- The TEROSON ET CR Heatingbox 2 CR can be integrated into systems from other manufacturers. When working on these systems, please also note the instructions in the instructions of the system manufacturers.

2 SECURITY

2.3 Organisational measures

Notes to the Operator	<ul style="list-style-type: none">• Keep this original instruction manual handy at all times at the point of use of the 2-pipe cartridge preheater and ensure that it is complete and legible.• In addition to the operating instructions, observe generally applicable legal regulations and other binding regulations for accident prevention and accident protection and instruct them to follow them.• Supplement the operating instructions with instructions on internal regulations.• Children are not allowed to use the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR.• Children are not allowed to play with the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR.• Every person who is commissioned to work on the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR must have read and understood the operating instructions and, above all, the safety instructions before starting work with the device.• Control the safety and hazard-conscious work of the staff.• Do not make any changes, additions or modifications to the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR without the written permission of the manufacturer.• Only use spare parts approved by the manufacturer. This is always guaranteed with original spare parts.• Persons who are under the influence of drugs, alcohol or reaction-impairing drugs are not allowed to carry out any work on the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR.• When reselling the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR, always hand over the operating instructions including all other device documents to the buyer.
Notes for operation	<ul style="list-style-type: none">• Before operating the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR, check the device and the mains connection for damage.• Before operating the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR for the first time, read the operating instructions and especially the safety instructions.• Refrain from any operation (e.g. incorrect operation) that endangers safety.• Observe all safety and hazard instructions on the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR.• Strictly comply with the country-specific accident prevention regulations and the general safety instructions.• In the event of safety-relevant changes in operating behaviour or malfunctions, immediately disconnect the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR from the power supply and report any fault to the responsible person/ body.• Installation, electrical connection, commissioning and maintenance of the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR may only be carried out by instructed personnel.
Workplace	<ul style="list-style-type: none">• The workstation during normal operation is located in the area around the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR.• The workplace in the company is only indoors.• Always place the device on a heat-resistant, firm, flat, non-slip and dry surface so that it does not tip over.• Make sure that the connection cable of the 2-pipe cartridge preheater does not come into contact with a heat source.• Make sure that the connecting cable is not on tensile tension.• Do not operate the appliance under low wall cabinets and the like.• Make sure that there is sufficient space and sufficient safety distance.• Other information is provided in the section 6.3.1.

2.4 Personnel selection and qualification

- The 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR may only be used by personnel instructed for this purpose.
- The operator may only hire persons who meet the following requirements:
- The persons are physically and mentally fit.
- The persons have proven their competence to operate the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR, primarily on the basis of a written operating manual.
- The persons can be expected to perform the tasks assigned to them reliably over the long term.

2 SECURITY

2.5 Safety instructions for specific operating phases

2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR only connect to a voltage supply that is suitable for the electrical connected load of the device. See Section 5 for this.

First operation



- Always check that the voltages and frequencies indicated on the nameplates match those of the operator network.
- The electrical characteristics of the supply voltage are listed in Section 5
- Electrical commissioning may only be carried out by a qualified electrician.
- Work on live components may only be carried out by qualified personnel.

Normal operation



Hazards

- Refrain from any safety-questioning operation that directly or indirectly affects the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR.
- Operation must be carried out exclusively by one person.
- Check the device at least once a day for externally recognizable damage or defects. Immediately report any changes that have occurred (including those in operational behaviour) to the responsible person/body.
- If necessary, disconnect the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR immediately from the mains and secure it against reconnection (warning sign).
- Immediately remedy or have remedied any damage or defects that have been identified.

Storage

- Always place the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR on a heat-resistant, firm, even, non-slip and dry surface.

Dangerous situations

- Disconnect the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR immediately from the power supply.
- In the event of disconnection due to damage to the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR: Do not put the device back into operation until the cause of the hazard has been eliminated.

3 INTENDED USE

Usage

The 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR is intended exclusively for the following use:

This device is used to heat adhesive cartridges according to TEROSON ET CR Heatingbox 2 CR up to 65°C

The intended use also includes reading these operating instructions, as well as complying with all instructions contained therein, in particular the safety instructions.

Only use adhesive cartridges that are designed for the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR.

Only use the connection cable (2) of the 2-pipe cartridge preheater.

Any other or more than this use is considered to be not in accordance with its intended purpose. These can result in hazards and damage.

Misuse

Adhesive cartridges that are not designed for the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR must not be used.

Never use the 2-pipe cartridge preheater in potentially explosive atmospheres.

No modifications to the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR are not permitted.

Other uses that could result in hazards and damage that are not listed in the above section are not permitted for use.

Disclaimer

We would like to draw your attention to the fact that Henkel AG & Co. KGaA is not liable for damage caused by incorrect or negligent operation, maintenance or improper use. This also applies to modifications, additions and conversions of the 2-pipe cartridge preheater, which can impair safety. In these cases, the manufacturer's warranty expires.

4 ABSTRACT

4.1 Structure of the 2-pipe cartridge preheater

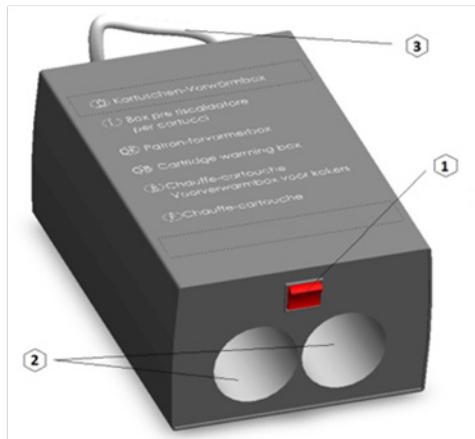


Figure 1: 2-Pipe Cartridge Preheater TEROSON ET CR Heatingbox 2 CR

- (1) On/ Off switch (I/O)
- (2) Inserting the cartridges
- (3) Connection cable with Schuko-plug

Figure 1 shows the most important components of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR with position numbers. With these position numbers, you can reliably identify the individual components whose meaning and use we explain in this operating manual. You will therefore find the position numbers in brackets in all relevant places in this manual.

Henkel AG & Co. KGaA supplies you with the TEROSON ET CR Heatingbox 2 CR IDH 2'11556 together with the matching connection cable.

4.2 Function

The 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR was developed for the simple heating of adhesive cartridges.

The heater, which is installed in the 2-pipe cartridge preheating device, is operated in a temperature range up to a maximum of 65°C via a built-in temperature controller.

The on/off switch (1) of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR also acts as an indicator light when the device is switched on.



Hazards

The 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR is connected via the connection line (3).

As protection, in the event of a failure of the regulator, a temperature fuse is installed. When the temperature fuse is triggered, the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR no longer heats.

Further information regarding the structure can be found in Section 6.3.

Further information regarding the function of the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR is listed in Section 8.

5 TECHNICAL DATA

5.1 General

Title: 2-Tube Cartridge Preheater TEROSON ET CR Heatingbox 2 CR

5.2 Supply voltage

Supply voltage: 230V

Power frequency: 50Hz

Voltage type: Alternating current [~]

5.3 Power Consumption

Power of the 2-pipe cartridge preheater: 200W (VA)

5.4 Temperature Controller

Opening temperature: +65°C ($\pm 2.8K$)

Closing temperature: +57°C ($\pm 3.3K$)

5.5 Fuse

Rated temperature: 98°C

Holding temperature: 83°C

5.6 Heating component

Heater Component: Electric Silicone Heater

Limit temperature: 240°C

Temperature max. possible: 247°C

5.7 Other components

Connection: Connection cable with Schuko plug (3)

Function Control: On/Off Switch (1) (Red Lamp)



We reserve the right to make changes to the technical data that serve technical development.

6 TRANSPORT, STORAGE, ASSEMBLY, DISMANTLING

6.1 Transport

Control on takeover

The product must be checked for any damage during transport after unpacking. In the event of damage, this must be communicated to the freight forwarder and a damage report must be drawn up. Report any damage, defects or missing parts immediately to the carrier and the supplier.

6.2 Storage

- Transport temperature: -20°C to +70°C
- Permissible storage temperature: 0°C to +35°C
- Relative humidity: max. 75%, no condensation

6 TRANSPORT, STORAGE, ASSEMBLY, DISMANTLING

6.3 Structure



- Before using the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR, read the operating instructions and especially the safety instructions.
- Always place the device on a heat-resistant, firm, flat, non-slip and dry surface so that it does not tip over.
- Adjust the supply voltage of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR with the mains voltage (see Section 7).
- Make sure that the connection cable does not come into contact with a heat source.
- The connecting cable could scorch or burn through.
- Make sure that the power cord does not come into contact with sharp-edged objects.

6.3.1 Conditions at the installation site

- **Permissible ambient temperature:** 5°C to +35°C
- **Relative humidity:** 10 to 85% relative humidity, no condensation

6.3.2 Connect



- Dangerous Voltage
Touching live parts can result in serious injury or death.
Have the mains connection installed only by a qualified electrician.
Check the integrity of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR and the connection cable (3).

6.4 Dismantling



- Turn off the supply voltage in the system.
- Disconnect the connection cable of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR from the power supply.
- Do not bend the connecting cable and do not wrap the connecting cable around the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR.
- When reselling the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR, always hand over the original operating instructions including all other device documents to the buyer.

7 COMMISSIONING

7.1 Instructions before commissioning

Security



- Installation, maintenance, repair and connection require qualified specialist personnel (e.g. a certified electrician) and may only be carried out with original spare parts.
- Before commissioning the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR, a test must be carried out in accordance with the applicable safety regulations and laws (e.g. EN 50106:2008 [VDE 0700-500], CE, UVV).

EMC requirement



- We would like to point out that according to Directive 2014/30/EU, the commissioning person is obliged to comply with this directive.
- Within the framework of the EMC Directive 2014/30/EU, compliance with the maximum flicker rate permissible under EN 61000-3-3:2013 + A1:2017 + A2:2021 + A2:2021/COR1:2022 is also required.
- This results from the connected load and the number of switching cycles that occur.
- The higher the load, the fewer switching cycles are allowed. It is therefore advisable to keep the heating load as low as possible.
- If the flicker rate is still exceeded with your control loop, a reduction in the flicker rate can be achieved by changing control parameters.
- Reducing the mesh impedance also reduces the flicker rate.

7 COMMISSIONING

7.1 Instructions before commissioning

Monitoring of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR



Hazards

- If the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR, a heater or a similar product is used in unattended operation (night operation), we refer to the VDE regulations (Safety in Electrical Heating Systems EN IEC 60519-1:2020 [VDE 0721-1, Part 411]) and the regulations of the employers' liability insurance associations, which in such cases prescribe thermal monitoring (or a thermal limiter) or require a separate safe structure.
- The 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR has a temperature protection device as required by the standard EN IEC 60519-1:2020 [VDE 0721-1, Part 411]).
- The temperature fuse triggers at a temperature of 98°C.
- No highly flammable or explosive substances may be stored or processed in the vicinity of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR.
- Check at least once a week for externally recognizable damage or defects.
- The 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR must stand securely on a clean, firm and even surface.

7.2 Connection Condition

Connection condition

- Please always observe the recognised rules of technology and accident prevention regulations applicable to your installation location (e.g. VBG 4).
- The power supply line must be secured in accordance with these rules (e.g. IEC 60364-1:2005 [VDE 0100-100:2009, § 31]).
- For additional safety, the circuit should be equipped with an FI circuit breaker (EN 61008-1:2012 + A1:2014 + A1:2014/AC:2016 + A2:2014 + A11:2015 + A12:2017 [VDE 0664-10]).

7.3 Mains connection

Mains connection



Hazards

- Compare the supply voltage of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR with the mains voltage.
- Only use the connection cable (3) provided for this purpose and supplied for connection.
- Plug the supplied mains plug (3) into an earthed socket, it should be protected by a residual current circuit breaker.

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TEROSON ET CR Heatingbox 2CR

Type:	IDH211556
Number [Nr.]:	106-725-0011-0B
Voltage [U]:	230V~ /50Hz
Power [P]:	200W
	
	
Operating temperature [K]:	max. 65°C
Serial number:	2410043
Construction (year):	2024

Figure 2: Nameplate of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR

7.4 Device Connection

Device Connection

- The electrical connection is made via the connection cable (3).
- The 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR is supplied with a voltage of 230V AC.
- Other electrical characteristics are listed in Section 5.

8 SERVICE



- When commissioning the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR, care must be taken to ensure that it is not lying on the connecting cable and may crush the line.
- If necessary, the connection cable should be rolled up and secured to the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR.
- Check the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR for possible mechanical damage.
- Always place the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR on a heat-resistant, firm, even, non-slip and dry surface.
- Only connect the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR to a power supply that is suitable for the electrical connected loads of the device (see Section 7).
- Other information regarding the construction of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR can be found in Section 6.3.

2-Pipe Cartridge Preheater TEROSON ET CR Heatingbox 2 CR on



- The on/off switch (1) of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR is set to "Off" (O) at the beginning.
- Place the glue cartridge in the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR (2).
- Switch the on/off switch (1) to "On" (I).
- The on/off switch (1) lights up red when operating "on".
- Do not trap objects between the adhesive cartridge and the aluminium part of the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR (2).
- Wear protective gloves when inserting the adhesive cartridge.
- There is a risk of burns!

2-Pipe Cartridge Preheater TEROSON ET CR Heatingbox 2 CR off



- Wait for a few minutes until the glue cartridge in the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR has warmed up.
- After heating the glue cartridge, switch the on/off switch (1) to "Off" (O).
- The on/off switch (1) no longer lights up when operating "off".
- The adhesive cartridge can now be removed from the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR (2).
- Wear protective gloves when removing the adhesive cartridge.
- There is a risk of burns!
- The dismantling of the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR is shown in Section 6.4.

9 MAINTENANCE



- Only carry out maintenance measures described in this operating manual.
- Have maintenance measures that are not described carried out by a service technician of the manufacturer or, after consultation with the manufacturer, by a specialist.
- Only carry out all cleaning, maintenance and inspection work if the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR is deenergized and protected against restarting.

9.1 Cleaning

- All work on the electrical system is carried out exclusively by a qualified specialist in the electrical engineering field.
- Children are not allowed to carry out cleaning and user care.
- Always disconnect the connection wire (3) from the supply voltage before starting the maintenance work and the inspection (visual inspection).
- Never operate the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR with a damaged connecting cable.
- Wait until the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR has cooled down.
- Inspect the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR for external damage.

- Clean the housing only with a damp cloth, do not use harsh cleaning agents.
- Do not submerge the device under water.
- Make sure that no water enters the case.

10 DISPOSAL AND PACKAGING

Packaging	The materials used for the packaging of the 2-pipe cartridge preheating device TEROSON ET CR Heatingbox 2 CR must be disposed of professionally in accordance with local regulations and sent to the locally available disposal facilities.
Disposal	Defective parts must be collected and disposed of in accordance with the regulations in force. The same applies to the 2-pipe cartridge preheater TEROSON ET CR Heatingbox 2 CR itself.

11 CUSTOMER SERVICE

Regular customer service is not required.

For technical information about the 2-pipe cartridge preheater and its system-related application, please contact our customer service.

You can contact our customer service at the following address:

USA (1) 860-571-5174
 Germany (49) 800-1003170
 Singapore (65) 6266-0100
 China (86) 21-2891-8547

Henkel AG & Co. KGaA
 Henkelstraße 67
 40589 Düsseldorf, Germany

12 SPARE PARTS



Danger

Dangerous Voltage

Qualified personnel should only carry out work on live components.



Warning

Only use original spare parts or spare parts approved by the manufacturer.

Spare parts list

Art.-Nr.	Stückzahl im Gerät	Bezeichnung
17-00-043	1	Bimetall Regulators
16-02-004	1	On/ Off switch (1)
10-07-027	1	Connection cable (2)
16-06-002	1	Fuse
12-00-064	1	IEC Built-in Plugs

Disclaimer: The English version of the Declaration of Conformity is the original master document.
All other languages have been translated from English

Declaration of Conformity

TEROSON®

 EU Declaration of Conformity	
Designation of the unit:	TEROSON ET CR Heatingbox 2CR
Unit number:	Order no. (IDH): 211556
Manufacturer:	Henkel AG & Co. KGaA Henkelstraße 67 40589 Düsseldorf Germany
This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:	
Applicable EC regulations	Directive 2014/35/EU Low Voltage Directive Directive 2014/30/EU Electromagnetic Compatibility Directive Directive 2011/65/EU RoHS 2 Directive
Applicable harmonized standards	IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016 EN 60335-1:2012 +AC:2014 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019 EN 55014-2:2015, EN 55014-1:2017 +A11:2020, EN 61000-3-1:2019 +A1:2021, EN 61000-3-3:2013 +A1:2019 EN IEC 63000:2018
Place and date of issue:	Signed for and on behalf of Henkel AG & Co. KGaA:
Düsseldorf, 2024-10-30	 Michael Brunner Business Development Manager Equipment

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TEROSON®

Henkel AG & Co. KGaA

Henkelstraße 67,
40191 Düsseldorf
Deutschland
Telefon +49 211 2970
www.henkel-adhesives.com

Henkel Capital, S.A. de C.V.

Calzada de la Viga s/n Fracc.
Los Laureles
Loc. Tulpetlac, C.P. 55090
Ecatepec de Morelos, MEXICO

Henkel Loctite Korea

8F, Mapo Tower, 418,
Mapo-dong, Mapo-gu,
Seoul, 121-734, KOREA

Henkel Corporation

One Henkel Way
Rocky Hill, CT 06067-3910
USA

Henkel Singapore Pte Ltd

401, Commonwealth Drive
#03-01/02 Haw Par Technocentre
SINGAPORE 149598

Henkel Japan Ltd.

27-7 Shin Isogo-cho, Isogo-ku
Yokohama, 235-0017
JAPAN

Henkel Corporation

Automotive/ Metals H.Q.
32100 Stephenson Hwy,
Madison Heights 48071
USA

Henkel Canada Corporation

2225 Meadowpine Boulevard
Mississauga, Ontario L5N 7P2
CANADA

Henkel (China) Company Ltd.

No. 928 Zhang Heng Road,
Zhangjiang, Hi-Tech Park, Pudong,
Shanghai, China 201203

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Henkel Adhesive Technologies