



Technical Data Sheet



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UniBond Weather Guard Outdoor Extreme Repair

High modulus weather-proof sealant and adhesive

CHARACTERISTICS

All purpose, one-part, elastic joint sealant and multipurpose adhesive for indoor and outdoor applications based on Flextex®-Technology.

- good elasticity - movement capability 20%
- excellent adhesion to a wide range of construction materials without primer
- high initial tack
- tack-free surface
- can be applied to damp surfaces without bubbling or losing adhesion
- very good UV, weather and ageing resistance
- silicone-free
- isocyanate free
- solvent-free
- non-corrosive
- good application even at low temperatures
- no shrinkage during curing
- impact and vibration absorbing

APPLICATION FIELD

UniBond Weather Guard Outdoor Extreme Repair Sealant bonds well on a wide variety of substrates and is recommended for use in elastic sealing and bonding applications:

- connection joints, e.g. joints between wood/aluminium/PVC-window or door frames and brickwork, for stairs, balconies, terraces, soundproofing of pipes between concrete and sheathing etc.
- installing (bonding and sealing) windowsills, stone steps, tiles, fittings, metals, wood, stoneware, prefabricated elements etc.
- joints in ventilation & air-conditioning ductwork





STANDARDS

- Conforms to EN ISO 11600
 - Conforms to EN 15651-1 (CE marking)
 - GEV EMICODE®: EC 1^{plus}
 - EN 15301-1
- Class F-20HM, sealant for building construction
Class 20HM, product type F-EXT-INT: sealant for facade for interior and exterior application
Very low emissions
Reaction to fire: Class E

INSTRUCTIONS FOR USE

Application

UniBond Weather Guard Outdoor Extreme Repair Sealant is supplied ready to use and can be applied from the cartridge using a standard air or hand operated gun, with no special pre-treatment.

Sealing application:

The joint width must be designed to suit the movement capability of the sealant. In general the joint width must be > 10 mm and < 35 mm. A width to depth ratio of ~1:0.5 must be maintained.

After joint and substrate preparation, insert backing rod (closed cell, PE-foam backing rods) to required depth. Extrude UniBond Weather Guard Outdoor Extreme Repair Sealant into joint making sure that it is full contact with the side of the joint. UniBond Weather Guard Outdoor Extreme Repair Sealant must be tooled firmly against joint sides to ensure good adhesion.

Masking tape can be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant has still not formed a skin.

After application, the product can be smoothed with soapy water.

Bonding application:

After substrate preparation apply UniBond Weather Guard Outdoor Extreme Repair Sealant in strips or spots on the bonding surface at intervals of a few centimetres. Use a twisting action to set the item to be bonded into position. Support if necessary until the adhesive has cured. An incorrectly positioned item can be easily repositioned in the first few minutes after application. Apply pressure again.

Optimum bonding will be obtained after complete curing of UniBond Weather Guard Outdoor Extreme Repair Sealant, i.e. after 24 to 48 hours at +23°C for a thickness between 2 to 3 mm.

Cleaning tools

Clean tools and application equipment with white spirit immediately after use. Cured material can only be removed mechanically (e.g. with knife).



TECHNICAL DATA:

Uncured product

Chemical base:	Flextec®-Polymer (Moisture curing silane modified polymer (SMP) - cures by reaction with atmospheric humidity.)	
Odour:	Alcohol	
Application temperature:	+5°C to +40°C (substrate and ambient)	
Consistency:	Non-slump paste	
Density:	~ 1.39 g/ml	(ISO 2811-1) (Colours)
	~ 1.05 g/ml	(ISO 2811-1) (Trans)
Resistance to flow:	~ 0 mm	(ISO 7390)
Skin formation time:	~ 15 - 20 minutes	(23°C, 50% r.h.)
Curing speed:	~ 2 mm / 24 hours	(23°C, 50% r.h., bead 20x10mm)
Initial tack:	~ >10 g/cm ² (Colours)	
	~ >14 g/cm ² (Trans)	

Cured product

Odour:	Odourless	
Shore A hardness:	~ 40	(ISO 868)
100% Modulus :	~ 0,75 N/mm ²	(ISO 8339-A)
Tensile strength:	~ 0,9 N/mm ²	(ISO 8339-A)
	~ 250 %	(Colours)
Elongation at break:	~ 200 %	(Trans)
Elastic recovery:	~ 85 %	(ISO 7389-B)
Shrinkage:	~ -3 %	(ISO 10563)
Movement capability	20 %	(ISO 11600-F)
Recommended joint width	10-35 mm	
Service temperature:	-40°C to 80°C	

Limitations

Do not use UniBond Weather Guard Outdoor Extreme Repair Sealant as a sanitary or glazing sealant.

UniBond Weather Guard Outdoor Extreme Repair Sealant cannot be overpainted.

Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents which could attack the sealant.

Not suitable for joints with water pressure, permanent water immersion, e.g. in swimming pools or areas of permanent damp.

Not recommended for copper and brass or natural stones (e.g. marble).

Product may only be used for mirror bonding if the mirror coating and the protective lacquer complies with EN 1036-1. In case of unknown mirror qualities please ask mirror producer for an approval.



GENERAL INFORMATION

Storage

12 months from date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between +10°C and 25°C.

Packaging

PE-cartridge

Colours

White

Translucent

Grey

Brown

HEALTH AND SAFETY

Before using the product please see related Material Safety Data Sheet that is available to download from mysds.henkel.com.

"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.

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