

# Hyperflex® Hybrid

**Hyper-elastic, moisture-curing hybrid thixotropic super-sealant adhesive, for use in GreenBuilding. With reduced solvent and with very low volatile organic compound emissions. Safeguards the health of both operators and the environment.**



Hyperflex® Hybrid, thanks to the exclusive Flexigrid 3.0 Technology, is specifically designed to elastically seal and bond any material on any surface, including damp surfaces, even in difficult conditions.



**GREENBUILDING RATING®**

Rating based on average colour formulations

**rating 4**

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

Very low VOC emissions  
Solvent-free  
No environmental hazard rating  
Non-toxic and non-hazardous

**PRODUCT STRENGTHS**

- Multi-purpose – Paintable – Rapid
- Also for use on damp substrates
- Thermal shock resistant
- Superior mechanical resistance

## AREAS OF USE

### Use

The exclusive elastic micro-grid – Flexigrid 3.0 – which develops as a result of the cross-linking of the Hyperflex® hybrid moisture-curing paste guarantees:

- lasting **hyper-elastic bonding** even in the most extreme laying conditions, ensuring over time adhesion to any type of substrate, even in the presence of elevated, dynamic loads and on damp substrates, of:
- various building components;
- prefabricated elements
- plinths, thresholds and sills
- stair coverings;
- board strip;
- panels in general;
- **sealing** of expansion joints, cracks and fissures, structural elements, door and window frames, metal roofs, sheet metalworks, joints of all kinds.

Suitable for interiors and exteriors, in contact with the main building materials such as cement-based substrates (plasters, mortars, concrete), ceramic tiles, cotto, clay bricks, steel (crude, galvanized, stainless steel, prepainted and plasticized), copper, aluminium, glass, mirrors, wood, synthetic resins, PVC. Also for use on damp substrates.

### Do not use

On surfaces with low compactness and high levels of dust formation, on bituminous structures and products transuding oil, solvents or plasticizers; on surfaces in PP / PE, Teflon; in the construction of structural joints subject to a high degree of movement, in swimming pools. On marble and natural stone it is advisable to carry out a test in advance.

## INSTRUCTIONS FOR USE

### Preparation of substrates

Each surface subjected to sealing or bonding must not include any stagnant water, and must be clean and free of grease, rust, dust and loose debris. Remove all flaky or loose parts and carefully deoxidize all metals.

When making visible joints, in order to obtain a clean sealing line, if it is carried out flush with the surface, it is recommended to cover the edges with a protective mask, made of adhesive paper, which must be removed as soon as the surface of the sealant will be smoothed and finished, and in any case before a film forms on the adhesive.

Hyperflex® Hybrid adheres without problems to almost all substrates; however, considering the variety and wide range of materials, it is recommended that a primer be used as an adhesion promoter on specific substrates, in order to achieve maximum adhesion or when an extremely long working life is to be guaranteed for the system.

Hyperflex® Hybrid, when used as a sealant, must be able to move freely, adhering perfectly to the walls but not to the bottom of the joint: therefore, for an appropriate use, insert the closed cell polyethylene foam sub-joint called Joint, choosing it in the appropriate diameter depending on the width of the joint.

### Preparation

Hyperflex® Hybrid is ready-to-use.

\* ÉMISSION DANS L'AIR INTÉRIEUR Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

## INSTRUCTIONS FOR USE

### Application

Before extrusion of the product, check that any applied primer coat is dry. Place the package in the specific extrusion gun, cut the end of the aluminium tape, insert the special spout cut at an angle of 45 ° and screw the end cap of the gun itself.

In case of use as an adhesive, Hyperflex® Hybrid will be extruded in spots on the back of the product to be bonded if it has a reduced surface, while it should be extruded in parallel and vertical lines, spaced about 10-15 cm from each other, if the structure has a large surface. Continue by applying manual pressure to fix the object to be bonded in its final position; if the weight of the object is excessive, use adhesive tape or another propping system to support it during the initial hardening phases when the adhesive is developing its mechanical performance characteristics. The bonded object may be repositioned during the first few minutes after application, depending on the weather conditions.

When it is used as a sealant, Hyperflex® Hybrid will be extruded into the joint or crack, taking care to compress the hybrid paste and make it penetrate in depth, to encourage adhesion and avoid incorporating any air bubbles. To achieve a perfect finish, pass a metal or plastic spreader soaked in soapy water over the surface in one, continual movement if possible. For long-lasting sealing, capable of withstanding expansion and contraction stress, the following conditions are necessary:

- 1) the joint is applied so that movement will not exceed 20% of joint average width
- 2) the ratio between width and sealant depth must be as follows:
  - 1/1 for sections from 8 to 12 mm
  - 2/1 for sections from 12 to 35 mm.

### Cleaning

Residual traces of hybrid product can be removed with acetone right after use. Once hardened, Hyperflex® Hybrid can only be removed by mechanical means.

## SPECIAL NOTES

After application of Hyperflex® Hybrid protect sealant from rain for at least 2 hours at +20 °C. In the case of transparent sealing operations, use the clear version of Hyperflex® Hybrid, which has a crystal translucency.

Overpainting: in case of overpainting, the sealant must be completely polymerized. It is recommended to use Kerakover Eco Acrilex Flex, Kerakover Eco Kompact Pittura and Aqualite Eco Smalto Lucido or Satinato. Always carry out a preliminary compatibility test between sealant and paint. If the joint must be painted over, it is not recommended to use Hyperflex Hybrid Crystal.

## ABSTRACT

*Hyper-elastic bonding of building materials in general and waterproof sealing of joints, cracks, couplings with super-adhesive, hyper-elastic moisture-curing hybrid thixotropic sealant such as Hyperflex® Hybrid by Kerakoll® Spa, GreenBuilding Rating® 4, CE-marked and compliant with the performance requirements indicated in Standard EN 15651, part 1 (for light grey and white), part 1 and 3 (for transparent/crystal).*

## TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	coloured or crystal clear hybrid paste
Specific weight:	
- coloured	≈ 1.50 kg/dm <sup>3</sup>
- transparent	≈ 1.04 kg/dm <sup>3</sup>
Chemical nature	moisture-curing hybrid
Shelf life	≈ 12 months from production in the original sealed packaging
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	unipack 600 ml
Joint min. width	≥ 6 mm
Joint max. width	≤ 35 mm
Sealing section ratio W/D:	
- up to 12 mm	1/1
- from 12 to 35 mm	2/1
Temperature range for application	from +5 °C to +40 °C
Skinning time	≈ 15 – 20 min.
Reticulation time	≈ 3 mm / 24 hrs
Coverage	see approximate coverage table

*Values taken at +23 °C, 50% R.H. and no ventilation.*

## COVERAGE TABLE

### Linear metres of joints sealable with one 600-ml unipack of Hyperflex® Hybrid

Depth	Width	8 mm	10 mm	15 mm	25 mm	30 mm	35 mm
8 mm		≈ 9.2 m	–	≈ 4.8 m	–	–	–
10 mm		–	≈ 5.8 m	≈ 3.8 m	–	–	–
13 mm		–	–	–	≈ 1.8 m	–	–
15 mm		–	–	–	≈ 1.6 m	≈ 1.2 m	–
18 mm		–	–	–	–	≈ 1 m	≈ 0.8 m

If an estimated coverage value has not been given, it means the joint width/depth ratio is outside the specified limits and the joint cannot be sealed.

## PERFORMANCE

### VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS

Conformity EC 1 plus GEV-Emicode GEV Certified 8377/11.01.02

#### HIGH-TECH

Shore A Hardness	45 – 55	ISO 868
Elastic modulus	≈ 0.90 N/mm <sup>2</sup>	ISO 8339
Elongation at break	≥ 200%	ISO 8339
Tensile strength	2.2 MPa	ASTM D412
Movement capability	20%	
Elastic recovery	> 70%	ISO 7389
Resistance to atmospheric agents	excellent	
Resistance to flow at +23 °C	≤ 3 mm	ISO 7390
Resistance to flow at +50 °C	≤ 3 mm	ISO 7390
Application temperature range	from -40 °C to +80 °C	
Classification EN 15651-1	F-EXT-INT	
Classification EN 15651-3	S (only for transparent/crystal)	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

## COLOUR CHART

### Colours Hyperflex® Hybrid

White  
RAL 9010 – NCS S0502-Y

Light Grey  
RAL 9006 – NCS S2002-B

Dark Grey  
RAL 7046 – NCS S4502-B

Bahama Beige  
NCS S2020-Y60R

Jasmin  
RAL 9001 – NCS S0804-Y30R

Black  
RAL 9004 – NCS S9000-N

Transparent/Crystal

The colours shown and the RAL and NCS references are purely indicative.

## WARNING

- **Product for professional use**
- abide by any standards and national regulations
- use at temperatures between +5 °C and +40 °C
- do not use on wet substrates
- protect from rain during the first 2 hours following application
- store in a cold, dry environment
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - [globalservice@kerakoll.com](mailto:globalservice@kerakoll.com)

The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2020 (ref. GBR Data Report - 12.20); please note that additions and/or amendments may be made over time by KERAKOLL SpA, for the latest version, see [www.kerakoll.com](http://www.kerakoll.com). KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.



**KERAKOLL**  
The GreenBuilding Company

KERAKOLL S.p.a.  
Via dell'Artigianato, 9 - 41049 Sassuolo (MO) Italy  
Tel +39 0536 816 511 - Fax +39 0536 816 581  
[info@kerakoll.com](mailto:info@kerakoll.com) - [www.kerakoll.com](http://www.kerakoll.com)