

# H40 kerakoll

Multipurpose  
Gel-Adhesives,  
structural, flexible,  
thixotropic & fluid.  
For tiles and stone of  
all types and formats.



# H40 Gel

## The next generation standard-setting gel-adhesive.

The new H40 Gel gel-adhesive combines unique workability and high performance. Its guaranteed thixotropic and fluid mix ensures actual durability on site.

### → **Unique workability**

H40 Gel is easy to apply and holds its shape supporting the weight of heavy tiles, making work on site easier.

### → **Thixotropic & fluid**

H40 Gel can be mixed to thixotropic and fluid consistences; thanks to its variable rheology, total wettability is guaranteed throughout. Gel technology revolutionizes the way that adhesive is used on site, which is in complete contrast to traditional adhesives that could be inconsistent and difficult to use.

### → **Multi-purpose**

Performs outstandingly with all materials and substrates, making it the go-to adhesive for all situations.

### → **Superior performance**

The adhesion performance of H40 Gel has been subjected to strict testing and is formulated to perform in actual on site conditions. Kerakoll has developed its own unique strain tests to mimic the stresses that an installation will face in the real world to ensure the product's durability on site.



C 2TE S1

# H40 Advanced

## The next generation rapid-setting gel-adhesive with extended workability.

The new H40 Advanced gel-adhesive is the first of its kind - guaranteeing long workability and accelerated adhesion, ensuring safe application on-site.

### → **Extended workability with accelerated adhesion**

H40 Advanced ensures long workability and rapid setting; it is easy to spread and maintains its shape, supporting the weight of heavy tiles, making work on site easier.

### → **Thixotropic & fluid**

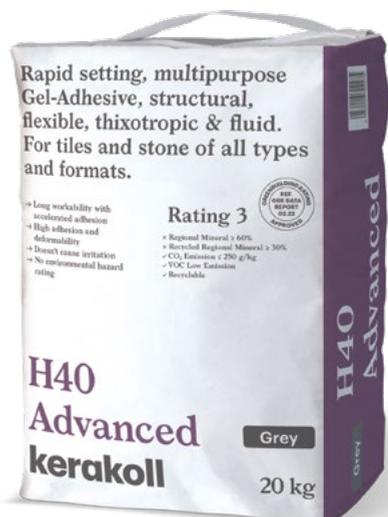
H40 Advanced can be mixed to thixotropic and fluid consistences; thanks to its variable rheology, total wettability is guaranteed throughout. Gel technology revolutionizes the way that adhesive is used on site, which is in complete contrast to traditional adhesives that could be inconsistent and difficult to use.

### → **Superior rapid-setting performance**

The adhesion performance of H40 Advanced has been subjected to strict testing and is formulated to perform in actual on site conditions.

### → **No warning label**

The product has no warning labels; it is of mineral origin and non-hazardous to the environment and health, as it does not contain Portland cement.



# H40 Extreme

## The next generation hybrid gel-adhesive for extreme applications.

The new H40 Extreme hybrid gel adhesive revolutionises the world of reactive adhesives thanks to its unique fluidity and extreme flexibility, making it the ideal solution for the most extreme laying conditions.

### → **Extreme fluidity**

H40 Extreme hybrid gel-adhesive offers a unique level of fluidity as it is 5 times less viscous than traditional polyurethane adhesives.

### → **Thixotropic & fluid**

H40 Extreme always remains fluid and thixotropic, guaranteeing total wettability at all times.

### → **Universal**

It can be used in all conditions, even the most extreme, meeting the needs of all installations.

### → **Extreme flexibility**

Ten times more deformable than generic S2 adhesives, it guarantees the highest level of long-lasting performance.



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# Gel-Technology by Kerakoll.

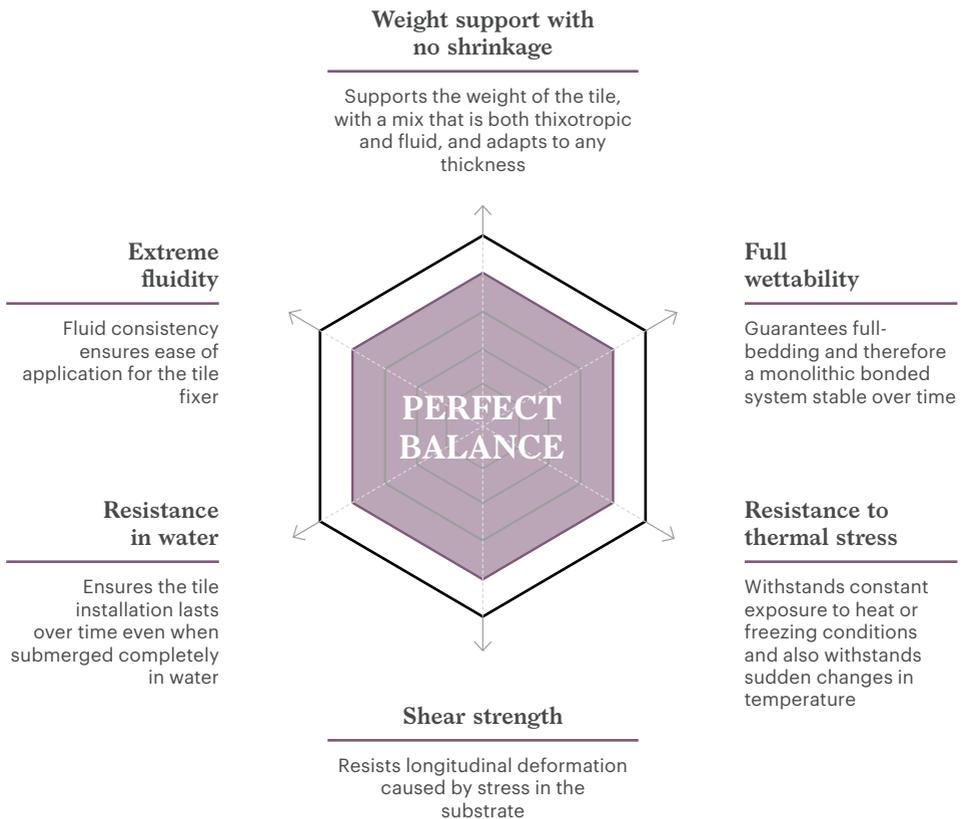
The researchers behind gel technology studied the behaviour of natural elements and eco-friendly raw materials and applied these to adhesives to get the perfect balance between final performance and ease of use on site.

**GEL**  
TECHNOLOGY



# The perfect gel formula: six parameters to achieve the perfect technical balance.

The study of the perfect gel formula is based on the identification of six fundamental parameters related to the most important characteristics of workability and mechanical performance. During formulation in the laboratory, Kerakoll researchers carry out numerous tests to maximise and balance all these parameters. The perfect gel formula is created only after this long process in the laboratory and on the building site.



# Tested for the entire life-cycle of the tiling installation.

Kerakoll researchers verify the durability of H40 gel-adhesives using the SAS method, which overcomes the limitations of the Standard by subjecting the fixed system to strain tests which simulate a floor's life cycle. The sample is subjected to 20 mechanical stress cycles, 50 thermal stress cycles and finally 50 freeze-thaw cycles. Once the process is complete, they carry out tensile and shear strength tests to make sure that the gel-adhesives outperform the Standard's stipulated values. H40 Gel, H40 Advanced and H40 Extreme pass every challenge with unparalleled real-world durability.

**H40 gel-adhesives encompass numerous advantages; here are their fundamental attributes.**

→ **Unique workability**

Designed for the professional tile fixer making it simple to choose, easy to use and risk-free.

→ **Superior performance**

Guaranteed technical performance; subject to stringent testing which reproduces the actual conditions that a tiling installation is subjected to over its life cycle.

→ **Actual durability**

More sustainable, thanks to the use of selected innovative raw materials.

→ **Total safety**

Very low VOC emissions, non-toxic, and non-hazardous to health of fixers and end users.





# H40 range

## The next generation gel-adhesives: shock white colour.

The unmistakable Shock White colour of H40 Gel and H40 Advanced comes from specially selected raw materials such as pure white cements, born from Kerakoll's desire to meet the needs of the most demanding tiling professionals.

White Shock means choosing only the highest quality elements and raw materials; that's the only way to create the new perfectly formulated gel adhesives.

### → **Optimum rheology**

Improved workability thanks to the use of inert spherical material.

### → **Better coverage**

Pure white carbonate when mixed with water, increases coverage, workability and improves the mix.

### → **Ideal for marble and natural stone**

Perfect for use with all kinds of marble and natural stone, and with light coloured grouts.



**The new H40 gel-adhesives  
Shock White**



# H40 range

## The next generation gel-adhesives: multipurpose.

The new gel adhesives of the H40 range are the right solution for every application requirement because they ensure performance levels exceeding standard limits with any type of material and on any type of substrate.

- Guaranteed results on every substrate with any type of tile.
- The universal solution for the most varied project and site requirements.

<b>Substrates</b>	<b>Primer</b>
concrete	→ prime with Keragrip Eco
ceramic tiles	→ clean and degrease
cement-based screed	→ prime with Primer A Eco
plywood	→ prime with Keragrip Eco
metal	→ prime with Keragrip Eco
gypsum-based substrate	→ prime with Primer A Eco

It is essential to check and properly prepare the substrate to guarantee maximum performance. H40 Extreme does not require priming, but does require adequate cleaning of the substrate if necessary.



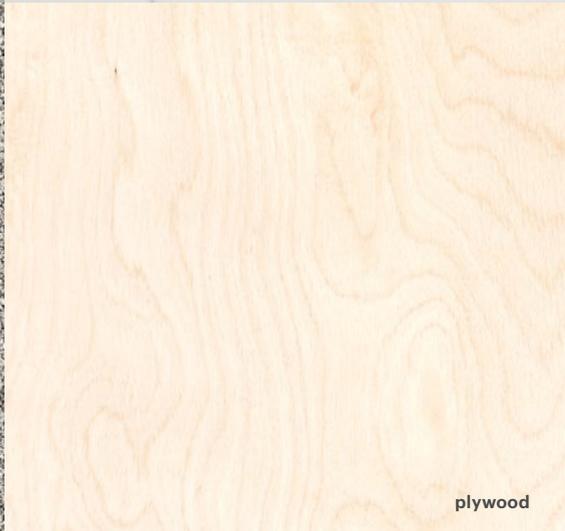
concrete



ceramic tiles



cement-based screed



plywood



metal



gypsum-based substrate

# H40 range

## The next generation gel-adhesives: thixotropic & fluid that maintain shape.

H40 Gel and H40 Advanced are thixotropic adhesives with variable rheology; soft and workable when applied with a spreader, they maintain their thickness unchanged under the weight of the tile. This makes it easier for the tile fixer to create a perfectly level installation without compromising workability. They hold the tile with no vertical slip and are suitable for all types of substrate.

- Support the weight of the tile while maintaining shape and thickness without slumping.
- Make it easy to create an even surface without tile lippage.
- With no vertical slip, allowing wall tiles to be fixed from the top down as well as from the bottom up.





**H40 Advanced Grey**

# H40 range

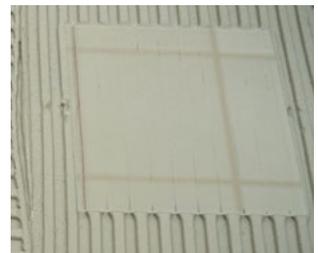
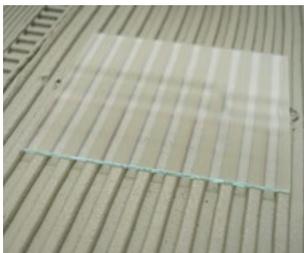
## The next generation gel-adhesives: total wettability.

The new H40 gel-adhesives fully wet the back of the tile and make it easier to solid bed the tiles. Creating a compact layer of adhesive between the substrate and the tile without any voids maximises the contact surface ensuring a long-lasting bond.

The uniform and monolithic layer of H40 ensures a correct distribution of loads, avoids breakage and helps to maintain the performance level of the system even in difficult working conditions.

The extended open time prevents the adhesive from thickening or a skin from forming to ensure the bond.

- Make it easier to solid bed the tiles.
- Ensure perfect laying with both traditional formats and large format slabs.
- Does not allow a skin to form or thickening.



**Wettability test: a simple pressure is enough to obtain full-bedding under the tile**



H40 Advanced Grey

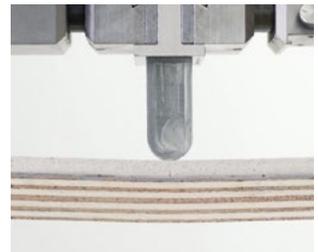
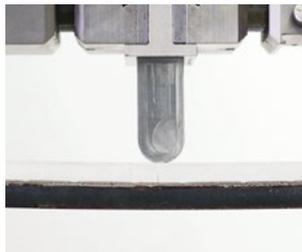
# H40 range

## The next generation gel-adhesives: structural and flexible.

The H40 range of gel-adhesives form a structural bond with the elements making up the installation and evens out the stresses to which the tiling is subjected.

The specific rheological modifiers that they contain increase the adhesives' flexibility and performance, and allow them to withstand the stresses caused by the most deformable and flexible substrates.

- Create a structural bond between the substrate and the tile which will ensure durability over time.
- Suitable for deformable substrates such as wood and metal.
- The inclusion of additives improve flexibility without affecting workability, ensuring the best possible on site performance.





# H40 range: The solution for every situation.

Kerakoll systems offer unrivalled technical and aesthetic performance, guaranteeing the quality, safety and comfort of the tiling installations for which they are used.



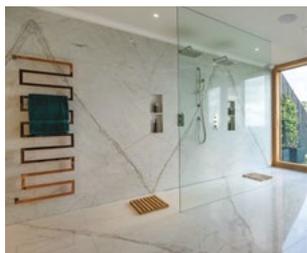
## → **Large format tiles**

H40 Gel-Adhesives provide superior wettability and allow for easy full-bedding with a thixotropic and fluid mix, which is easy to spread and at the same time supports the weight of the slab with no shrinkage. High resistance to shear stresses, caused by longitudinal deformations, and extended open time allow for safe and durable laying.



## → **Heated screeds**

H40 gel-adhesives respond perfectly to the shear stresses caused by temperature changes in a heated screed. In addition, its calibrated flexibility allows for safe laying in the case of compressible substrates, enabling laying with variable thicknesses in case of lowered systems.



## → **Wet rooms**

The unique workability of the gel-adhesives makes it easy to create the perfect wetroom using Kerakoll's Nanodefense Eco tanking system with H40 Gel or Advanced, for a long-lasting, reliable, bonded installation that is resistant to water.



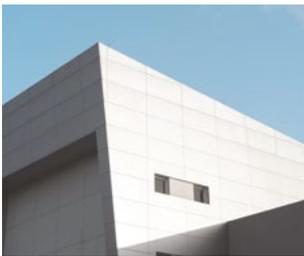
### → **Swimming-pools**

The superior wettability and strong bond of the next generation gel-adhesives creates a monolithic bonded system even in pools where the installation is in constant contact with water. The mix is easy to spread and work with on all types of tiles commonly used in swimming pools.



### → **Heavy traffic**

Solid bedding and a strong adhesive bond are particularly important in areas subject to heavy traffic. H40 gel-adhesives provide an excellent structural bond, capable of distributing and absorbing the stresses caused by dynamic loads.



### → **Facades**

Even large format slabs can be fixed safely onto facades using the H40 gel-adhesives; they hold the tile with full coverage and no vertical slip and their high shear strength guards against system failure, even when subjected to significant changes in temperature.



### → **Waterproofing Systems**

The perfect fusion of Aquastop Nanoflex and H40 Gel or Advanced creates a monolithic system that is waterproof and resistant to shear stresses. Superior wettability makes it easy to achieve full-bedding and ensure the durability of the entire fixing system.

**TILEMASTER ADHESIVES LTD. - KERAKOLL GROUP**  
Tomlinson Road, Leyland, Lancashire PR25 2DY,  
United Kingdom  
Tel +44 01772 456 831  
[info@kerakoll.co.uk](mailto:info@kerakoll.co.uk)



**kerakoll**

[kerakoll.com](http://kerakoll.com)