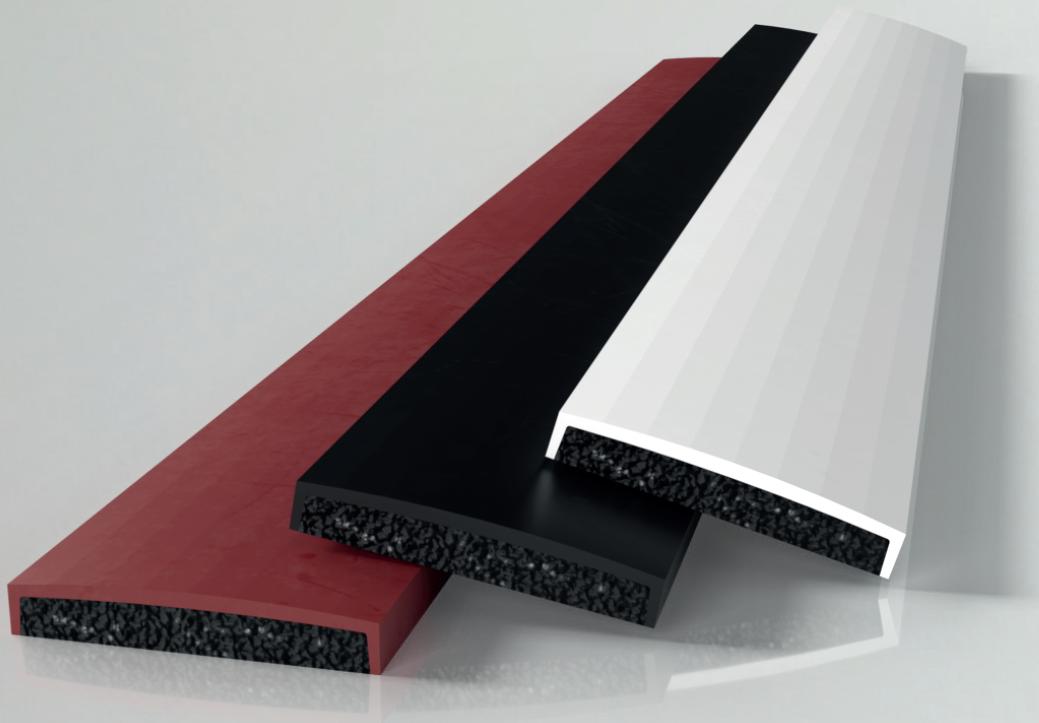


Technical Product Data Sheet

KERAFIX®

Everseal NG-N Series



kuhnrodice | ELNOVIS

Product description

The KERAFIX® Everseal NG-N series consists of expandable graphite-based, intumescent profile seals that expand when exposed to high temperatures and reliably seal joints in the event of fire. The main differences between the variants relate to their expansion rate, expansion pressure and performance level.

KERAFIX® Everseal NG-N L (low):

This variant offers an expansion rate of 7 to 16 and an expansion pressure of 0.209 to 0.671 N/mm².

It is ideal for applications with lower-level requirements.

KERAFIX® Everseal NG-N H (high):

With a higher expansion rate of 10 to 22 and an expansion pressure of 0.463 to 0.816 N/mm², this is a higher-performance variant that is particularly resistant to moisture.

KERAFIX® Everseal NG-N P (power):

The Power version offers maximum performance with an expansion rate of 12 to 23 and an expansion pressure of 0.50 to 0.90 N/mm². It is designed for highly demanding applications.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- Intumescent material for reliable fire protection
- Highly flexible and adaptable
- Easy to install and maintain
- Suitable for a wide range of applications in doors and windows

Fields of application

- Fire protection doors made from wood, steel or aluminium
- Glazing
- Facades
- Safety storage cabinets
- Safes
- Smoke protection doors

Features

The KERAFIX® Everseal NG-N series is largely insensitive to moisture.

Technical data

Verification

ETA-17/0978: 18 December 2017

Composition

Expandable graphite and TPE-based foaming material that is free from halogens, asbestos and conflict minerals. Compliant with REACH, RoHS and VOC and UV-resistant

Material structure

Flexible profile

Reaction to fire

Class E (DIN EN 13501-1)

Volatile components (VOC) [g/l]

None

Thermal conductivity [W/(mxK)]

0.255 (NG-N L)

Thermal conductivity reference temp. [°C]

10

Shore A hardness

83.4

Bulk density [kg/m³]

1050 (±10 %)

Start of reaction [°C]

175

Expansion rate [x times]

NG-N L: 7 – 16

NG-N H: 10 – 22

NG-N P: 12 – 23

Reference expansion rate

450 °C – 30 min. – without superimposed load

Intumescent layer

Solid, stable material

Expansion pressure [N/mm²]

NG-N L: 0.209 – 0.671

NG-N H: 0.463 – 0.816

NG-N P: 0.50 – 0.90

Reference expansion pressure

300 °C – method 4

Design variants

KERAFIX® Everseal NG-N without lamination

SK variant: self-adhesive on one side

DF variant: laminated with PVC film in different colours on one side



Special variant

KERAFIX® Everseal NG-CN L: co-extruded variant based on expandable graphite with non-foaming component (e.g. TPE-based)

Colour variants

Black, white, red

Processing information

1. Surface preparation:

- The surface to be adhered to or contacted should be clean, dry and free from dust, oil and grease.
- Very sticky dirt may have to be cleaned with a solvent or degreasing agent to ensure the optimal bonding conditions.

2. Application temperature:

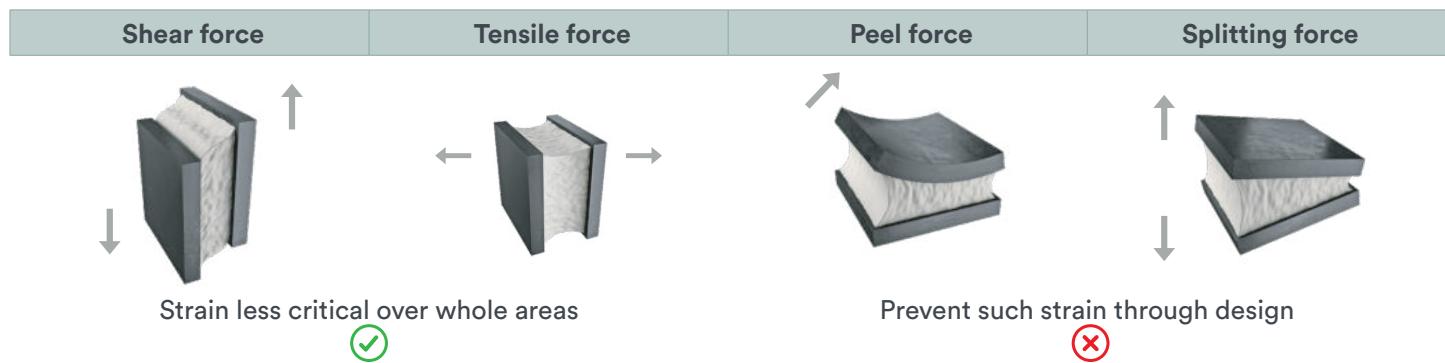
- Ideally, the material should be applied at ambient temperatures between +5 °C and +35 °C. Extremely low or high temperatures may negatively affect the processing properties and subsequent performance of the product.

3. Applying the product:

- KERAFIX® Everseal NG-N can be applied as a profile gasket in joints or recesses and on component surfaces. When using self-adhesive variants (SK variant), ensure that the protective film is only removed shortly before fitting.
- Press firmly on the material to ensure a good bond. When using the self-adhesive variants, pressing the product onto the surface is particularly important for ensuring consistent adhesion.

4. Positioning:

- Position the profile gasket or strips accurately and avoid readjusting as this may affect adhesion. For applications that require a high-precision fit, precise measurements should be taken beforehand.



Delivery forms

Standard lengths [mm]

1000, 2000, 3000 (special lengths are available upon request)

The profile gaskets are produced individually upon request.

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