

1. TECHNICAL DATA

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 10 min
Curing speed * (20°C / 65% R.H.)	2 mm/24h - 3 mm/24h
Hardness	38 ± 5 Shore A
Density	1.04 g/ml
Elastic recovery (ISO 7389)	> 75 %
Maximum allowed distortion	± 20 %
Max. tension (DIN 53504)	2.40 N/mm ²
Elasticity modulus 100% (DIN 53504)	0.80 N/mm ²
Elongation at break (DIN 53504)	300 %
Temperature resistance	-40°C - 90°C
Application temperature	5°C - 35°C

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

2. PRODUCT DESCRIPTION

Sumogrip Invisible is a high quality, clear, neutral, elastic, 1-component adhesive based on SMX-Polymer.

3. PROPERTIES

- Clear formulation
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Very good mechanical characteristics.
- Impervious to mould, contains ZnP (biocide with fungicidal action)
- Suitable for sanitary applications.
- Good extrudability even at low temperatures
- Free of isocyanates, solvents, halogens and acids
- Can be painted with all water-based paints and many other systems (to be tested)
- Permanently elastic after curing

4. APPLICATIONS

- All common bonding and sealing applications, both in and outdoor.
- Transparent and elastic bonding in construction and building applications.
- Invisible bonding of glass and other transparent materials in indoor applications.
- Joints in bathrooms and kitchens.

5. PACKAGING

Colour: transparent
Packaging: 290 ml cartridge

6. SHELF LIFE

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

7. CHEMICAL RESISTANCE

Good resistance to (salt)water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis.

Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

8. SUBSTRATES

Substrates: all usual building substrates, glass, treated wood, PVC, plastics, metals, stone, concrete, ...

Nature: clean, free of dust and grease.

Surface preparation: Porous surfaces in water loaded applications should be primed. All smooth surfaces can be treated with Surface Activator.

While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. NOTICE: bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Sumogrip Invisible is not recommended in these applications.

9. JOINT DIMENSIONS

Min. width for bonding: 1 mm
Min. width for joints: 5 mm
Max. width for bonding: 3 mm
Max. width for joints: 10 mm
Min. depth for joints: 5 mm

10. APPLICATION METHOD

Application method: With manual or pneumatic caulking gun.
Cleaning: With Maxitek Multi Wipes immediately after use.
Cured Sumogrip Invisible can only be removed mechanically.

Finishing: With a soapy solution.

Repair: With the same material

11. HEALTH & SAFETY RECOMMENDATIONS

Take the usual labour hygiene into account. Consult label for more information.

12. REMARKS

Sumogrip Invisible is paintable with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.

The drying time of alkyd resin-based paints may increase. Sumogrip Invisible can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.

Sumogrip Invisible is not suitable for expansion joints.

Do not use in applications where continuous water immersion is possible.

Sumogrip Invisible has a good UV resistance but can discolour under extreme conditions or after very long UV exposure. Sumogrip Invisible cannot be used as a glazing sealant. Not suitable for bonding aquariums.

Sumogrip Invisible cannot be used on natural stone. Because the adhesion surface will discolour under influence of the sealant (looks wet) and because this is visible through the clear sealant it seems like staining has occurred.

The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remnants will stimulate the development of fungi.

A total absence of UV can cause a colour change of the sealant.

Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in colour does not affect the technical properties of the product.

13. STANDARDS AND CERTIFICATES

Tested and in accordance with CE approval to EN 15651-1:2012: Type F-INT and EN15651-3: 2012: Type S: Class XS1. Also tested and in accordance with UKCA approval to BS EN 15651-1:2012: Type F-INT and BS EN15651-3: 2012: Type S: Class XS1.

14. ENVIRONMENTAL CLAUSES

Leed regulation: Sumogrip Invisible conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED® 2009 Credit 4.1: Low Emitting Materials – Adhesives & Sealants concerning the VOC-content.

15. LIABILITY

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.