

Technical information
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Safety datasheet

Product : **TIKALFLEX Clear 10**
Version : **12 / 2017** (This document supercedes all older versions.)

Product description

Tikalflex Clear 10 is a high-quality, single-component, weatherproof MS polymer-based adhesive and sealant. The product is neutral, virtually odour-free and contains no isocyanates or solvents.

Clear 10 hardens under the influence of humidity to a permanently elastic compound.

Applications

Clear 10 can be used on board, in the house or in the caravan for nearly all joints, whether interior or exterior.

Clear 10 is particularly suited for glass bonding.

Clear 10 is suitable for all applications in shipbuilding.

Clear 10 adheres in general to smooth surfaces, such as glass, metal, GRP, carbon, polystyrene and wood without primer.

Acrylic glass (Plexiglas) must first be pre-cleaned with our Cleaner C. Clear 10 can be ground and varnished.

Restrictions for applications

PP, PE, POM, Teflon and bituminous substrates

These substrates are not suited for bonding with Clear 10 or other products of the Tikalflex series. Not approved for structural separation joints in buildings.

Do not apply to alkyd resin varnishes – limited adhesive capacity.

Applying alkyd resin varnishes as top coat significantly prolongs the hardening of the varnish. Not permanently applicable under water.

Colour and structure are altered when permanently exposed to direct UV light.

Do not use as exterior adhesive with full UV exposure (turns yellow).

Pre-treatment and post-treatment

Adhesive surfaces must be clean, flat and free of grease.

Pre-clean acrylic glass with Cleaner C.

To smooth joints use TIKAL Fugen Ass or smooth with the finger, using an aqueous solution of off-the-shelf detergent (5%). Clean in fresh condition with Tikal

"cleaning wipes".
Machine cleaning is possible in the hardened state.

Colours / Packaging

Transparent
290 ml **cartridges**, 12 pieces per carton

Certifications / Testing

No certifications and ONLY in-house testing

Warranty / Liability

Tikal Marine Systems GmbH guarantees that all products conform to specifications within the minimum shelf-life indicated.

All technical information and processing information are based on our experience and our tests. The user is responsible for the sizing and choice of the adhesive joint. We are not liable for consequential damage during application.

Technical Data

General	Remarks	Value
Chemical basis		MS polymer
Processing temperature		0° to 40°
Application rate	3 mm / 6.3 bar	150 g / min
Resistance to flow	ISO 7390	< 2 mm
Density		1.01 g / ml
Skin forming time	at 23°C / 55 % rel. humidity	15 min
Through-hardening after 24 h	at 23°C / 55 % rel. humidity	< 2 mm
Frost-resistant during transport down to		- 15 ° C
Shelf-life for storage at 5°C to 25 °C		18 months
Expansibility in practice		+ / - 25 %
Temperature stability following hardening		- 40°C to + 90° C
Shore A hardness (3 s)	2 mm layer DIN 53505	38
Modulus 100 %	DIN 53504	1.0 N/ mm ²
Tensile strength	DIN 53504	2.2 N / mm ²
Elongation at failure	DIN 53504	250 %

Safety notices

A safety datasheet can be accessed under www.tikal-online.de
\ PRODUCTS \ Adhesives and Sealants \ Clear 10 in the Download area.