

TECHNICAL DATASHEET

Marine Sealant 25-4705

Product:

Marine Sealant is a high-quality, durable elastic MS-Polymer based glue and adhesive with a crystal clear transparency.

Applications :

Marine Sealant bonds without primer on almost all materials occurring in the building industry, such as aluminium, galvanized and stainless steel, zinc, copper, natural stone, concrete, brick, cement based cover sheeting, volkern, wood, gypsum, glazing, various synthetic materials, etc. Extremely useful for gluing and sealing different coloured backgrounds. Suitable for use as a universal glue and adhesive for sealing seams, connecting and movable joints Marine Sealant's bonding capacity improves markedly during the course of time. Examples of applications are:

- Sticking handles to glass doors
- Bonding and sealing show windows and display cabinets
- All gluing work where transparency is necessary
- Gluing work in veranda's, bathrooms, kitchens, etc.

Marine Sealant should not be used with:

- Joints that are exposed to constant submersion under water
- Joints with a width or depth < 5 mm
- Swimming pools containing chlorine, with constant submersion under water
- Bitumen
- Polycarbonate and poly-acrylate

Marine Sealant is not suitable for gluing PE, PP, PA, Teflon® and bitumen.

Proper ventilation during processing and during the hardening is important.

Properties:

- Sealing and gluing
- Crystal clear transparency
- Excellent bonding on most building materials
- Bonds even on moist backgrounds
- Solvent and isocyanide free
- Extremely strongly when completely dry

- Permanently elastic
- Does not cause any corrosion in metal joints
- Can be used inside and outside
- UV and weather-resistant
- Suitable for natural stone
- Neutral, odourless glue
- Mould resistant
- Paintable with most water and solvent based paints. Is paintable wet on wet. After 48 hours, the surface must be cleaned first before it can be painted. Pre-testing is necessary. Alkyd paints require an extended drying time.

Processing:

Support: The support must be fixed and rigid enough. The support does not have to be completely dry (damp).

Pre-treatment: The materials to be glued must be clean, dust and grease free. If necessary, degrease using Cleaner, MEK, alcohol, or ethanol. It is advisable to do bonding tests. It is the user's responsibility to check whether the product is suitable for his application. Our technical department could be consulted, if necessary.

Application: Apply Marine Sealant with the supplied nozzle in strips or dots to the support or on the element to be bonded. The strips must be applied in vertical rows. For information regarding the mutual distances between the glue strips, refer to "adhesive quantities". Biltema advises a gap of 3,2 mm between the parts to be bonded, to allow the glue to smooth out any distortions (especially important in exterior use or under humid conditions). To achieve this space, spacer blocks or pieces of foam tape with a thickness of 3.2 mm may be used. If the adhesive layer does not have to take up any, or only have to take up a slight mutual distortion between the construction parts, a thinner adhesive layer (at least 1.5 mm) will suffice (for example in interior applications).

Open time: Apply the part to be glued as quickly as possible, at the latest within 15 minutes (this depends on the temperature and relative humidity level). The material can at this stage still be adjusted, but then it should be pushed down well or tapped with a rubber hammer.

Cleaning: Any glue that may protrude along the edges can be removed using a stopping knife.

Drying time and strength:

Initially:

Internal strength (direct) > 0,0004 N/ mm²

Strength per m² adhesive surface > 400 N (> 40 kg)

After one hour, the strength has increased threefold:

Internal strength (after 60 minutes) > 0.0012 N/mm²

Strength per m² adhesive surface > 1200 N (> 120 kg)