Parabond Transparent

Transparent adhesive ï Crystal clear

Product:
Parabond Transparent is a high-quality, durable, elastic, MS-Polymer based adhesive with a crystal clear transparency.

Applications :
Parabond Transparent bonds without primer on almost all materials occurring in the construction industry, such as aluminium, galvanized and stainless steel, zinc, copper, natural stone, concrete, brick, cement based cover sheeting, HPL panels, treated wood, gypsum, various synthetic materials, etc. Extremely useful for joining and sealing different coloured backgrounds. Suitable for use as an universal glue and adhesive for sealing seams, connecting and movable joints. Parabond transparentôs bonding capacity improves remarkably during the course of time.

Examples of applications are:
- Fixing handles to glass doors
- Bonding and sealing show case windows and display cabinets
- All joining work where transparency is necessary
- Gluing work in verandas, bathrooms, kitchens, etc.

Parabond Transparent should not be used for:
- 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
- Not suitable for indoor swimming pool

Parabond Transparent is not suitable for gluing PE, PP, PA, Teflon® and bitumen.
- Bitumen: Paraphalt is suitable for Bitumen
- Polycarbonate and poly-acrylate: Parasilico PL is the ideal sealant for this purpose.

Proper ventilation during processing and during the hardening is important.

Characteristics:
- Crystal clear transparency
- Excellent bonding on most building materials
- Bonds even on moist backgrounds
- Solvent and isocyanate free
- Extremely strong when completely cured
- Permanently elastic
- Does not cause any corrosion in metal joints
- Can be used inside and outside

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- UV and weather-resistant
- Suitable for natural stone
- Neutral, odourless glue
- Suitable for rooms with high humidity
- 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.

Surface preparation and sealant application:

Base component: it must be fixed and rigid enough. The support does not have to be completely dry (may be slightly damp).

Pre-treatment: The materials to be joined must be clean and free from dust and grease. If necessary, degrease using Parasilico Cleaner, MEK, alcohol, or ethanol. For strongly absorbent components, it is recommended to use DL 2001 Primer. It is advisable to do bonding tests. It is the userôs responsibility to check whether the product is suitable for his application. Our technical department could be consulted, if necessary.

Application: Apply Parabond Transparent 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. DL-Chemicals advises a gap of 3.2 mm between the parts to be bonded, to allow the adhesive 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). To decide about all the above details, practical tests at site need to be done.

Exposure time: Bring together the parts to be joined as quickly as possible, at least within 15 minutes (this depends on the temperature and relative humidity level). The parts can at this stage still be adjusted, but finally one should be pushed down well over the other or tapped with a rubber hammer.

Removal of surplus adhesive: Any adhesive that may protrude along the edges can be removed using a stopping knife. Adhesive residue that has not yet dried, can be removed using Parasilico Cleaner. Cured adhesive must be removed mechanically. If desired, smooth finishing can be done using DL 100 or rubber stripper.

Drying time and strength:

Parabond Transparent combines the benefits of a tape with that of a reactive adhesive system: After drying under the influence of humidity. Parabond Transparent cures into a permanently elastic and very strong adhesive connection.

Instantaneous strength:

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)

After curing:
Parabond Transparent cures into a durable elastic and strong adhesive connection under the influence of humidity. The tensile stress at 100% elongation is 1.1 N/ mm² (ISO-37). The maximum tensile stress is > 2,2 N/ mm² (ISO-37) and the shearing force amounts to 1,5-3 N/mm² depending on the glue construction. Refer to the Technical characteristics for additional information concerning the strength qualities.
Elongation at break is 230% (DIN 53504/ISO 37)

Joint dimensions (for application as sealant):

Joint width	Joint depth:	Allowed deviation
6 mm	6 mm	± 1 mm
8 mm	6 mm	± 1 mm
10 mm	6-8 mm	± 2 mm
15 mm	10 mm	± 2 mm
20 mm	10-12 mm	± 2 mm
25 mm	15 mm	± 3 mm

Technical data:

Basic ingredient:	MS-Polymer
Curing system:	By means of humidity
Curing speed:	2.5 to 3 mm/24 hours at 23°C and 50% R.H
Number of components:	1
Skin formation time:	15 à 20 min. at 23°C and 50% R.H
Density:	1.06 g/ml approx (IS0 1183)
Shore A hardness:	35 (±5) (ISO-868)
Joint movement capacity:	+/-20%
Modulus at 100% elongation:	0.700 N/mm² (ISO-8339-40)
Modulus at break:	colours: 0.800 N/mm² (ISO-8339-40)
Elongation at break:	150% (ISO-8339-40)
Shearing stress	2.1 N/mm² (DIN 53283)
Solvent content:	0%
Isocyanate content:	0%
Dry matter content:	100% approx.
Processing temperature:	+5°C to +40°C (do not process below +5°C)
Temperature stability:	-40°C to +90°C
Moisture resistance:	Very good
Frost stability	Not sensitive to frost

Packaging & Colour:
25 cartridges of 290 ml per box: transparent

Storage and stability:
Keep in a dry and cool place in sealed packing.
Shelf life is 9 months in the sealed packing between +5°C and +25°C. Shelf life of opened packaging is limited.

Safety:
Please refer to the safety data sheet available on request.

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