PARABOND CONSTRUCTION

CHARACTERISTICS

- MS hybrid polymer based adhesive sealant
- Jointing and gluing
- Bonds also with slightly moist supports
- Extremely strong and permanently elastic.
- Does not cause any corrosion in metal joints
- Suitable for use with natural stone and for rooms with high humidity
- Paintable with most water and solvent based paints
- Solvent, isocyanate and phthalate free
- Excellent U.V., weather and to aging resistance

APPLICATIONS

- Bonds without primer on almost all materials used in the construction industry, such as aluminium, galvanized and stainless steel, zinc, copper, natural stone, HPL panels, treated wood, gypsum, glass, various synthetic materials, etc.
- For interior and exterior use
- Universal adhesive in the sealing of horizontal (and vertical) movable and connecting joints. For wide joints to 50mm.
- Sealing of cracks and joints, in car, caravan, train and bus construction, in containers, in air-conditioning installations, jointing and gluing work in veranda's, bathrooms, kitchens, etc.,
- All jointing where flexibility is important. Sealing between frame and wall, connecting joints of window and door frames, in facades and shop fronts
- Sound proofing between concrete and drain pipes
- Attaching and sealing of skirting boards, steps, doorsteps, protective profiles, fixing of covers, prefab elements...
- Can also be used on alkali surfaces such as concrete and brick. In this case, a primer is recommended.

TECHNICAL CHARACTERISTICS	
Basic ingredient	MS hybrid polymer
Curing system	By means of humidity
Number of components	1
Skin formation time (23°C and 50% R.V.)	40 min
Vulcanisation rate (23°C and 50% R.V.)	2,5 - 3 mm/24 h
Density : ISO 1183	1,48 g/ml
Processing temperature	+5°C - +40°C
Shelf life, in the original packing in dry conditions between +5°C - +25°C	12 months
Shore A hardness : ISO 868	40
Joint movement capacity : ISO 11600	25%
Modulus at 100% elongation : ISO 8339	0,80 N/mm²
Elongation at break : ISO 8339	230%
Modulus at break : ISO 8339	1,10 N/mm²
Solvent & isocyanate content	0%
Dry matter content	ca. 100%
Temperature resistance	-40°C - +90°C
Very good moisture resistance and not sensitive to frost	

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T +32 56 62 70 51 - F +32 56 60 95 68
info@dl-chem.com - **www.dl-chem.com**

PACKING AND COLOURS
25 cartridges of 290 ml/box - 48 boxes/pallet
White, black, grey Ral 7004, dark brown Ral 8016, light brown Ral 8007, pearl white Ral 1013, basalte, dark beige, natural stone, grey beige Ral 1019, Ral 7005, cement grey Ral 7023, crème white Ral 9001, terracotta
20 sausages of 600 ml/box - 45 boxes/pallet
White, black, grey Ral 7004, dark brown Ral 8016, basalte, dark beige, natural stone, Ral 7005, cement grey Ral 7023, crème white Ral 9001, middle grey, anthracite grey Ral 7016, terracotta, quartz grey, grey beige Ral 1019, bronze, panel grey, cement grey, stone grey Ral 7030, pebble grey Ral 7032

Other colours are available on request (75 cartridges or multiples).

METHOD OF USE

Preparation

The support must be fixed and rigid enough. The support may be slightly damp. The materials to be joined must be clean and free from dust and grease. If necessary, degrease using **Parasilico Cleaner**, MEK, alcohol, or ethanol.

Primers

For strongly absorbent supports it is recommended to use **DL 2001 Primer.** 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.
With double glazing, it is advisable to apply **black DL 2001 primer**. This prevents the contact surface between the glass and sealant from being exposed to UV-radiation.

Application

- As adhesive: Apply **Parabond Construction** with the supplied nozzle in strips or dots to the base or on the element to be bonded. The strips must be applied in vertical rows. Apply the strips parallel to each other, to allow the humidity to reach the adhesive between the strips. Bring together the parts to be joined as quickly as possible, at least within 10 minutes (this depends on the temperature and relative humidity level). The parts can at this stage still be adjusted Finally, push down one over the other well or tap with a rubber hammer. It is advised to have a gap of 3.2 mm between the parts to be bonded spacer blocks or pieces of foam tape may be used), to allow the adhesive to smooth out any distortions (especially important in exterior use or under humid conditions). If the adhesive layer does not have to take up any, or only has to take up a slight mutual distortion between the joining parts, a thinner adhesive layer (at least 1.5 mm) will suffice (for example in interior applications).
- As sealant: Provide shallow joints (on the floor) with a self-adhesive tape or foam tape to prevent triple-sided bonding. The adhesive depth of the movable joint should amount to approx. 2/3 of the joint width. Joints that are too deep should be filled with suitable filler foam (PE or PU-filler foam). With deep floor joints, it is advisable to use a strong PU-filler foam as back-up material. With floor joints, that are subjected to high mechanical load, the sealant should be applied deep. It is better to apply the sealant at an angle sloping from the floor surface to the adhesive surface (rim sides). The sealant should only bond at the sides of the joint.

Joint dimensions

The necessary width of a dilation joint depends on the temperature fluctuation, properties of the material and the dimensions of the construction elements. Apply at least a joint width of 6 mm.

Joint width	Joint depth	Allowed difference
6 mm	6 mm	± 1 mm
8 mm	8 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
35 mm	20 mm	± 3 mm
50 mm	30 mm	± 3 mm

Tooling

If desired, smooth finishing can be done using **DL 100** or **rubber stripper.**

Cleaning

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.** Dried adhesive must be removed mechanically.

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Painting
Paintable with most water and solvent based paints. 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.

SAFETY
Please refer to safety data sheet which is available on request.

LIMITATIONS
- Joints that are exposed to constant submersion under water and rooms with permanent high relative humidity
- Joints with a width or depth < 5 mm
- Gluing PE, PP, PA and Teflon®.
- On bituminous surfaces : use our **Paraphalt** for this purpose
- On polycarbonate and polyacrylate : use our **Parasilico PL** for this purpose
- Proper ventilation during processing and during the hardening is important.

TECHNICAL APPROVALS
SNJF (Société National du Joint Français): FACADE n° 3749
Mastic type élastomère classe 25E
ATG (Belgian technical approvement) ATG 12/2643
Leeds certificate for low VOC.(tested by Eurofins)
FDA approved (lanesco report Nr 15/19449)
CE
EC1Plus

CE
14
DL Chemicals
EN 15651-1
F EXT – INT
EN 15651-4
PW EXT - INT
No. DoP:
MP0070001

* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

DL CHEMICALS Since 1936 Manufacturer of Sealants
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PARABOND 600

CHARACTERISTICS

- MS-polymer based adhesive sealant
- High initial bonding strength ('high tack')
- High final strength
- Bonds also with slightly moist supports
- Does not cause any corrosion in metal joints
- Suitable for use with natural stone
- Paintable with most water and solvent based paints
- Solvent, isocyanate and phthalate free
- Permanently elastic
- U.V. and weather-resistant
- Good resistance to finger picking (you get a seal which is harder to pick by hand)

APPLICATIONS

- Bonds without primer on almost all materials used in the construction industry, such as aluminium, galvanized and stainless steel, zinc, copper, natural stone, concrete, brick, HPL panels, treated wood, gypsum, glass, various synthetic materials, etc.
- For interior and exterior use
- Gluing of panels and elements in the interior and ceiling construction: wall cladding elements and ceiling panels (interior), isolation panels (mineral wool, wood-wool cement & plastic foams, PUR, PIR, PS)
- Wooden & plastic laths, ornaments, frames, doorsteps, window sills, skirting boards, roofing elements...
- Gluing and fitting of safety glass in the banking industry and fitting of cable ducts, mitres in aluminium windows, mirrors etc.
- Can be used for bonding materials in the automotive.
- Secure environments (i.e. prisons, hospitals, ...) where the sealant is hard so it can't be picked out by hand (not for external glazing applications!)

TECHNICAL CHARACTERISTICS	
Basic ingredient	MS polymer
Curing system	By means of humidity
Number of components	1
Skin formation time (23°C and 50% R.V.)	17 min
Vulcanisation rate (23°C and 50% R.V.)	2,5 - 3 mm/24 h
Density : ISO 1183	1,56 g/ml
Processing temperature	+5°C - +40°C
Shelf life, in original packing in dry conditions between +5°C - +25°C	12 months
Shore A hardness : ISO 868	60
Joint movement capacity : ISO 11600	20%
Modulus at 100% elongation : ISO 8339	1,60 N/mm²
Elongation at break : ISO 8339	110%
Modulus at break : ISO 8339	1,7 N/mm²
Shearing strength beech/beech	Initial : 10 g/cm² After 4 h : 15 kg/cm² After 1 week : 32 kg/cm²
Tensile strength beech/beech	Initial : 300 g/cm² After 4 h : 14 kg/cm² After 1 week : 24 kg/cm²

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TECHNICAL CHARACTERISTICS	
Tensile strength alu/alu	After 2 weeks: 15 kg/cm² After 2 weeks + 20 min 180°C: 20 kg/cm²
Solvent & isocyanate content	0%
Dry matter content	ca. 100%
Temperature resistance	-40°C - +90°C
Extremely good moisture resistance and not sensitive to frost	

PACKING AND COLOURS
25 cartridges of 290 ml/box - 48 boxes/pallet
White, black, grey (Ral 7004), dark brown (Ral 8016), beige (Ral 1001)
20 sausages of 600 ml/box - 45 boxes/pallet
White, black

Other colours are available on request (75 cartridges or multiples).

METHOD OF USE

Preparation
The support must be fixed and rigid enough. The support may be slightly damp. The materials to be joined must be clean and free from dust and grease. If necessary, degrease using **Parasilico Cleaner**, MEK, alcohol, or ethanol.

Primers
For strongly absorbent supports it is recommended to use **DL 2001 Primer.** 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.

Application
- Apply **Parabond 600** with the supplied nozzle in strips or dots to the base or on the element to be bonded. The strips must be applied in vertical rows. Apply the strips parallel to each other, to allow the humidity to reach the adhesive between the strips.
- Bring together the parts to be joined as quickly as possible, at least within 10 minutes (this depends on the temperature and relative humidity level). The parts can at this stage still be adjusted
- Finally, push down one over the other well or tap with a rubber hammer.
- It is advised to have a gap of 3.2 mm between the parts to be bonded spacer blocks or pieces of foam tape may be used), to allow the adhesive to smooth out any distortions (especially important in exterior use or under humid conditions).
- The internal strength of **Parabond 600** immediately after application is such that bonding is possible without clamping or temporary support.

Tooling
If desired, smooth finishing can be done using **DL 100** or **rubber stripper.**

Cleaning
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.** Dried adhesive must be removed mechanically.

Painting
Paintable with most water and solvent based paints. Can be painted 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.

SAFETY
Please refer to safety data sheet which is available on request.

LIMITATIONS
- Joints that are exposed to constant submersion under water and rooms with permanent high relative humidity
- Joints with a width or depth < 5 mm
- Gluing PE, PP, PA and Teflon®.
- On bituminous surfaces : use our **Paraphalt** for this purpose
- On polycarbonate and polyacrylate: Use our **Parasilico PL** for this purpose

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TECHNICAL APPROVALS

IKI-report for the use in hospitals as glue and adhesive for wall panels.
Leeds certificate for low VOC (tested by Eurofins)

* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

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TECHNICAL DATA SHEET

PARABOND TRANSPARENT

CHARACTERISTICS

- Universal MS-polymer based adhesive sealant
- Crystal clear transparency
- Bonding and sealing
- Extremely strong when completely cured
- Bonds also with slightly moist supports
- Does not cause any corrosion in metal joints
- Suitable for use with natural stone
- Solvent and isocyanate free
- Paintable with most water and solvent based paints
- Permanently elastic

APPLICATIONS

- Ideal for all jointing and gluing work where transparency is necessary (eg. sticking handles on glass doors, in bathrooms, kitchens, etc).
- Ideal for "invisible" bonding and sealing of different colored substrates and transparent materials for indoor applications.
- Suitable for sealing seams and connecting joints indoors.
- Bonds without primer on almost all materials used in the construction industry, such as aluminium, galvanized and stainless steel, zinc, copper, natural stone, concrete, brick, HPL panels, treated wood, gypsum, glass, various synthetic materials, etc.

TECHNICAL CHARACTERISTICS	
Basic ingredient	MS polymer
Curing system	By means of humidity
Number of components	1
Skin formation time (23°C and 50% R.V.)	12 min
Vulcanisation rate (23°C and 50% R.V.)	2,5 - 3 mm/24 h
Density: ISO 1183	1,06 g/ml
Processing temperature	+5°C - +40°C
Shelf life, in the original packing in dry conditions between +5°C - +25°C	12 months
Shore A hardness : ISO 868	35
Joint movement capacity : ISO 11600	12,5%
Modulus at 100% elongation : ISO 8339	0,70 N/mm²
Elongation at break : ISO 8339	150%
Modulus at break : ISO 8339	0,80 N/mm²
Solvent & isocyanate content	0%
Dry matter content	ca. 100%
Temperature resistance	-40°C - +90°C
Extremely good moisture resistance and not sensitive to frost	

PACKING AND COLOURS
25 cartridges of 290 ml/box - 48 boxes/pallet
Transparent

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METHOD OF USE

Preparation
The support must be fixed and rigid enough. The support may be slightly damp. The materials to be joined must be clean and free from dust and grease. If necessary, degrease using **Parasilico Cleaner**, MEK, alcohol, or ethanol.

Primers
For strongly absorbent supports it is recommended to use **DL 2001 Primer.** 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.

Application
- Apply **Parabond Transparent** with the supplied nozzle in strips or dots to the base or on the element to be bonded. The strips must be applied in vertical rows. Apply the strips parallel to each other, to allow the humidity to reach the adhesive between the strips.
- Bring together the parts to be joined as quickly as possible, at least within 10 minutes (this depends on the temperature and relative humidity level). The parts can at this stage still be adjusted
- Finally, push down one over the other well or tap with a rubber hammer.

Tooling
If desired, smooth finishing can be done using **DL 100** or **rubber stripper.**

Cleaning
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.** Dried adhesive must be removed mechanically.

Painting
Paintable with most water and solvent based paints. Can be painted 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.

SAFETY
Please refer to safety data sheet which is available on request.

LIMITATIONS
- Joints that are exposed to constant submersion under water and rooms with permanent high relative humidity.
- Joints with a width or depth <5 mm.
- Gluing PE, PP, PA and Teflon®.
- On bituminous surfaces : use our **Paraphalt** for this purpose.
- On polycarbonate and polyacrylate: use our **Parasilico PL** for this purpose.
- Proper ventilation during processing and during the hardening is important.
- Do not expose to UV exposure for long periods.

TECHNICAL APPROVALS
- A+
- CE
- EC1Plus licence nr 8903/13.11.12

GEV-EMICODE EC 1 PLUS sehr emissionsarm

CE
14
DL Chemicals
EN 15651-1
F INT
No. DoP:
MP0070007

ÉMISSIONS DANS L'AIR INTÉRIEUR: A+ (A+ A B C)

* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

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PARABOND FAST

CHARACTERISTICS

- MS hybrid polymer based elastic adhesive sealant
- Fast build-up of internal strength. The glue obtains most of its final strength already after a couple of hours
- Extremely strong
- Bonds also with slightly moist supports
- Does not cause any corrosion in metal joints
- Suitable for use with natural stone
- Paintable with most water and solvent based paints
- Solvent, isocyanate and phthalate free
- Permanently elastic
- U.V. and weather-resistant

APPLICATIONS

- Bonds without primer on almost all materials used in the construction industry, such as aluminium, galvanized and stainless steel, zinc, copper, natural stone, concrete, brick, HPL panels, treated wood, gypsum, glass, various synthetic materials, etc.
- For interior and exterior use
- The assembled parts can be manipulated relatively fast after gluing: window frames, furniture
- Gluing and fitting of cable ducts, mitres in aluminium windows, mirrors etc.
- Can be used for bonding materials in the automotive.

TECHNICAL CHARACTERISTICS	
Basic ingredient	MS hybrid polymer
Curing system	By means of humidity
Number of components	1
Skin formation time (23°C and 50% R.V.)	10 - 15 min
Vulcanisation rate (23°C and 50% R.V.)	2,5 - 3 mm/24 h
Density : ISO 1183	1,58 g/ml
Processing temperature	+5°C - +40°C
Shelf life, in the original packing in dry conditions between +5°C - +25°C	12 months
Shore A hardness : ISO 868	65 (+/- 5)
Elongation at break : ISO 8339	50%
Modulus at break : ISO 8339	1,4 N/mm²
Shearing strength wood/wood (after 4 h)	2,7 N/mm²
Shearing strength	Initial : 8 g/cm² After 4 h : 25 kg/cm² After 1 week : 32 kg/cm²
Tensile strength	Initial : 200 g/cm² After 4 h : 23 kg/cm² After 1 week : 23 kg/cm²
Solvent & isocyanate content	0%
Dry matter content	ca. 100%
Temperature resistance	-40°C - +90°C
Extremely good moisture resistance and not sensitive to frost	

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PACKING AND COLOURS

12 cartridges of 290 ml/box - 104 boxes/pallet

White - black

Other colours are available on request (75 cartridges or multiples).

METHOD OF USE

Preparation

The support must be fixed and rigid enough. The support may be slightly damp. The materials to be joined must be clean and free from dust and grease. If necessary, degrease using **Parasilico Cleaner**, MEK, alcohol, or ethanol.

Primers

For strongly absorbent supports it is recommended to use **DL 2001 Primer.** 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.

Application

- Apply **Parabond Fast** with the supplied nozzle in strips or dots to the base or on the element to be bonded. The strips must be applied in vertical rows. Apply the strips parallel to each other, to allow the humidity to reach the adhesive between the strips.
- 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
- Finally, push down one over the other well or tap with a rubber hammer.
- It is advised to have a gap of 3.2 mm between the parts to be bonded spacer blocks or pieces of foam tape may be used), to allow the adhesive to smooth out any distortions (especially important in exterior use or under humid conditions).

Tooling

If desired, smooth finishing can be done using **DL 100** or **rubber stripper.**

Cleaning

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.** Dried adhesive must be removed mechanically.

Painting

Paintable with most water and solvent based paints. 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.

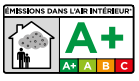
SAFETY

Please refer to safety data sheet which is available on request.

LIMITATIONS

- Joints that are exposed to constant submersion under water and rooms with permanent high relative humidity
- Joints with a width or depth < 5 mm
- Gluing PE, PP, PA and Teflon®.
- On bituminous surfaces : use our **Paraphalt** for this purpose
- On polycarbonate and polyacrylate : use our **Parasilico PL** for this purpose

TECHNICAL APPROVALS



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