

Unipak®



DISCOVER THE COMPLETE POLY MAX® RANGE

Bonding, fixing & sealing at the highest level



GET TO KNOW OUR POLY MAX® RANGE

Poly Max® High Tack and Fix & Seal are based on SMP-Polymer technology and are ideal for bonding, fixing and sealing. Both Express varieties feature an extremely fast strength build up and attain full final strength after only 4 hours. As a result, connections can be subjected to loads quickly so that you, as a professional, need not waste valuable time waiting.

In addition, Poly Max® Sealant All Joints complements the range as a next generation, multifunctional sealant. This premium all-in-one sealant is easy to use, fast curing and for all kinds of sealing projects in interior, sanitary and exterior areas. Poly Max® Sealant All Joints is designed to deliver superior performance for all your needs: sealing, filling and finishing.

So, for bonding, fixing and sealing at the highest level, you can trust Poly Max®: High Tack for high initial bond strength, Fix & Seal for high elasticity and Sealant for the perfect sealing solution.



BONDING & FIXING

Solvent-free assembly adhesive based on SMP-Polymer with **very high initial bond strength** and **very fast strength gain**. Excellent for heavy materials and vertical applications.



BONDING, FIXING & SEALING

Solvent-free assembly adhesive and sealant based on SMP-Polymer with **very high elasticity** and **very fast strength gain**. Ideal for fixing and sealing at the same time.



100% SEALING

Premium quality, **multifunctional sealant** for sealing applications in sanitary-, interior- & exterior areas.

POLY MAX® IS GUARANTEED:

Solvent-free

Permanently elastic

Very good filling capacity

Non-shrinking; 100% product

No soiling of joint edges

Weather resistant

Paintable

Suitable for slightly damp surfaces

Resistant to temperatures between -40°C and +100°C



EXTENSIVELY TESTED AND CERTIFIED

The quality of Unipak Poly Max® has been extensively and independently tested and proven on the basis of various (European) standards:



Poly Max® High Tack Express, Fix & Seal Express and Sealant All Joints comply with the EC-1 Plus (Very low emission Plus) classification.



TÜV Rheinland: quality mark for which various properties are tested such as shear strength (beech wood on beech wood, beech wood on steel, beech wood on plastic), final strength, elasticity and tensile strength. Poly Max® High Tack Express and Fix & Seal Express have tested positively for these properties. *TUV Rheinland certificate No. 000043168*



TÜV SÜD: quality mark for screwless fastening of metal stud interior walls. In accordance with work instruction number MUC-KSP-A 1044. As the first assembly adhesive on the European market, Poly Max® High Tack Express has obtained this approval. *TUV SÜD certificate No. 26 02 90317 002.*



Thermal performance of buildings / Air permeability of building components and building elements: completely airtight. Poly Max® Sealant All Joints White is 100% airtight up to 1,000 Pa, tested by SKG-İKOB in accordance with EN 12114.



EPD is a verified and registered document that communicates transparent and comparable information about the life-cycle environmental impact of products. We have EPD's available for our products.



POLY MAX[®] HIGH TACK EXPRESS

This universal, solvent-free SMP-Polymer based assembly adhesive has very high initial bond strength and very fast strength gain; its final strength is attained after only 4 hours! Poly Max[®] High Tack Express is especially suitable for heavy materials and vertical applications. Ideal for bonding and fixing ceiling elements, roof fascias, panelling and insulation material. Shoring or clamping is usually not necessary. This assembly adhesive can be used for practically all materials and surfaces, both indoors and outdoors and is also temperature, UV, water and weather resistant.

BONDING AND FIXING

WITH VERY HIGH INITIAL BOND STRENGTH



Express:
final bond strength
after 4 hours

Available in white

Suitable for wood,
(natural) stone, (cellular)
concrete, metal, hard foam
and various plastics*

Very high initial bond strength
& extremely fast strength gain

Ideal for heavy materials,
vertical applications, and
overhead applications

Special V-nozzle opening
for optimal distribution of
the adhesive

For indoor and
outdoor use

Can be handled after
approx. 30 minutes



EPD available

For technical specifications, see the back of this folder.

* Not suitable for PE, PP, PTFE, pure plaster and bitumen.

** For an explanation of certifications and standards, see the 'Extensively tested and certified' pages at the front of this folder.

STEP-BY-STEP PLAN: INSTALLING A METAL STUD INTERIOR WALL



- 1 Clean surfaces. Define and mark assembly points. Align with cross line laser if necessary.
- 2 Adjust profile length and lay the profiles at installation site. Clean the undersides of the profiles.
- 3 Position the nozzle with the point of the triangle facing upwards and at a small angle, to apply the adhesive. Apply two even and continuous adhesive beads at a distance of 2 cm from the edge.
- 4 Press profiles firmly and evenly onto the surfaces (watch out for sliding).
- 5 Fix the frame profiles against the wall and the ceiling in the same manner.
- 6 Place vertical metal stud profiles within the frames and finish the metal framework.
- 7 The plasterboards can be fixed directly to the metal framework.

ADVANTAGES OF SCREWLESS FASTENING:

Quiet and clean:
no dust and drilling noise

Fast and efficient:
no waiting times and no insulating tape

Safe and accurate:
no drilling through pipes or wires
and dealing with uneven surfaces



TÜV SÜD CERTIFICATION FOR THE SCREWLESS FASTENING OF METAL STUD INTERIOR WALLS



POLY MAX[®] FIX & SEAL EXPRESS

Poly Max[®] Fix & Seal Express is ideal for fixing, sealing or a combination of both. It can be used for fixing window sills, panelling and insulating materials and for sealing seams and joints around window frames, roof facias and skylights. Poly Max[®] Fix & Seal Express is a SMP-Polymer based assembly adhesive and sealant that is characterised by very high elasticity and very fast strength gain. Final strength is attained after only 4 hours. Suitable for practically all materials and surfaces, both indoors and outdoors and is also temperature, UV, water and weather resistant.

BONDING, FIXING AND SEALING

WITH VERY HIGH ELASTICITY

Available in white,
crystal clear,
grey, transparent grey,
anthracite and black

Suitable for wood,
(natural) stone,
(cellular) concrete,
metal, hard foam
and various plastics*

Very high elasticity &
very fast strength gain

Ideal for fixing in combination
with sealing



Express:
final bond strength
after 4 hours

For indoor and
outdoor use

The white, grey,
anthracite and black
variant can be
handled after approx.
30 minutes and the
crystal clear and
transparent grey
variant can be
handled after approx.
2 hours



For technical specifications, see the back of this folder.

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EPD available



POLY MAX[®] SEALANT ALL JOINTS

This universal, solvent-free, SMP-Polymer based sealant is easy to use, fast curing and suitable for all kinds of sealing projects in interior, sanitary and exterior areas. This all-in-one sealant replaces silicone, acrylic, and PU sealants, retaining all the benefits but without the disadvantages. Its unique formula ensures no shrinkage, unmatched flexibility, and resistance to mildew and UV rays, making it ideal for professionals who demand reliability and efficiency.

PREMIUM SEALANT

FOR INTERIOR, SANITARY &
EXTERIOR APPLICATIONS



Satin finish; perfect for both shiny and matt surfaces

Good adhesion to many building materials: concrete, stone, composite, metal, ceramic tiles, glass, (painted) wood and various plastics*

Ideal for indoor applications according to EC1+ classification (strict emission limits)

Does not shrink

Premium Poly Max[®] quality

Available in white and crystal clear

100% Sealant

- Permanently elastic
- Paintable
- Mildew resistant

White variant is 100% airtight up to 1.000 Pa, tested at SKG-IKOB conform EN 12114

Multifunctional: interior, sanitary, exterior



EPD available

For technical specifications, see the back of this folder.

* Not suitable for PE, PP, PTFE, copper based metals (bronze, brass) and bitumen.

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INTERIOR

For sealing gaps, seams and joints in walls, ceilings, window sills, stairs and skirting boards

- Paintable
- Does not shrink
- Permanently elastic
- Satin finish



SANITARY

Seal baths, showers, sinks, toilets, shower drains & joints between walls and floors

- Suitable for natural stone and many other materials (even moist)
- Mildew resistant
- Waterproof
- Acid free

FOR THE PERFECT FINISH

In addition to Unipak Poly Max® Sealant All Joints, Unipak is proud to introduce the Sealant Finisher, a ready-to-use and acid free primer that gives every sealant job a professional finish. Sealant Finisher has been specially developed to effortlessly smooth sealant joints, resulting in a perfect, even appearance. Sealant Finisher comes in a handy spray bottle made from 70% recycled plastic.

To complement the sealant concept, Unipak is also introducing the Sealant Finishing Set. This set with four spatulas is designed to finish all types of sealant joints. As the Sealant Finishing Set contains four different spatulas with rounded and square angles in different sizes, it is easy to finish almost all types of joints quick and tight. The Finishing Tools are made of thermoplastic rubber, making them long lasting and easy to clean.

SEALANT FINISHER

Ready to use, easy smoothening spray

Less chance of mould growing

Accelerates curing of sealant



SEALANT FINISHING SET

Made of durable thermoplastic rubber

Multifunctional: for round joints, 45° & 90° joints and flat joints

Easy to clean – sealant residues are easily removed



EXTERIOR

Fill gaps, cracks, joints, (drill) holes and connecting or dilatation joints

- Waterproof
- Does not shrink
- Paintable
- UV and temperature resistant





AQUA MAX®

Aqua Max® is a water resistant solvent-free assembly adhesive and sealant based on SMP Polymer. Suitable for bonding and sealing of almost all materials on almost all surfaces. Ideal for swimming pool construction, ponds and agriculture and materials such as skimmers, edges, tiles, drains, roofing, outflow pipes and dilatation joints. Even suitable for underwater applications.

MOUNTING ADHESIVE AND SEALANT

WATER-RESISTANT

(Chlorine/sea) water resistant

UV resistant

Even suitable for underwater applications

Very high, permanent elasticity



Ideal for swimming pool construction and renovation

Available in white

Solvent-free

Can be handled after approx. 45 min.

Suitable for all kinds of applications and materials, including skimmers, edges, tiles, drains, roofing, outflow pipes, drains, conduits and pond edges*



EPD available

For technical specifications, see the back of this folder.
 * Not suitable for PE, PP, PTFE, pure plaster and bitumen.
 ** For an explanation of certifications and standards, see the 'Extensively tested and certified' pages at the front of this folder.

Technical specifications

POLY MAX® FIX & SEAL EXPRESS & HIGH TACK EXPRESS



SPECIFICATIONS

Variant	Express	Express	Express	Express
Colour	White	White/Grey/Black/Anthracite	Transparent-Grey	Crystal Clear
Chemical basis	SMP-Polymer	SMP-Polymer	SMP-Polymer	SMP-Polymer
Viscosity	Thixotropic	Thixotropic	Thixotropic	Thixotropic
Tensile strength	~30 kg/cm ²	~25 kg/cm ²	~15 kg/cm ²	~15 kg/cm ²
Shear strength	~40 kg/cm ²	~35 kg/cm ²	~25 kg/cm ²	~25 kg/cm ²
Shrinkage	~0%	~0%	~0%	~0%
Hardness (Shore A)	~70	~60	~40	~40
Shelf life	At least 18 months. Limited shelf life after opening.			
Storage conditions	Properly sealed packaging should be stored in a dry, cool, frost-proof location at temperatures between +5°C and +25°C.			

CURING TIMES*

Skin formation time	~15-30 min.	~10-15 min.	~45-60 min.	~45-60 min.
Handling time	~30 min.	~30 min.	~2 hours	~2 hours
Curing rate	~1,5 mm/24 hours	~1,5 mm/24 hours	~2,5 mm/24 hours	~2,5 mm/24 hours
Final strength after	~4 hours	~4 hours	~4 hours	~4 hours

PROPERTIES

Moisture resistance	Very good	Very good	Very good	Very good
Water resistance	Good	Good	Good	Good
Temperature resistance	From -40°C to +100°C	From -40°C to +100°C	From -40°C to +100°C	From -40°C to +100°C
UV resistance	Good	Good	Moderate	Moderate
Chemicals resistance	Good	Good	Good	Good
Paintability**	Good	Good	Good	Good
Elasticity	~250%	~200%	~300%	~300%
Filling capacity	Very good	Very good	Very good	Very good

* Drying times may vary depending on surface, quantity of product applied, moisture content and ambient temperature, among other factors.

** Test beforehand

Technical specifications

POLY MAX® SEALANT ALL JOINTS



SPECIFICATIONS

Colour	White	Transparent	White
Chemical basis	SMP-Polymer	SMP-Polymer	SMP-Polymer
Density	~1.43 g/cm ³	~1.05 g/cm ³	~1.51 g/cm ³
Tensile strength	~150 N/cm ²	~150 N/cm ²	~235 N/cm ²
Hardness (Shore A)	~38	~32	~55
Shelf life	At least 18 months. Limited shelf life after opening.		
Storage conditions	Properly sealed packaging should be stored in a dry, cool, frost-proof location at temperatures between +5°C and +25°C.		

CURING TIMES*

Skin formation time	~10-15 min.	~10-15 min.	~30-45 min.
Curing rate	~2,5 mm/24 hours	~2,5 mm/24 hours	~2 mm/24 hours

PROPERTIES

Mildew resistance	Very good	Very good	Good
Water resistance	Very good	Very good	Good
Temperature resistance	From -40°C to +100°C	From -40°C to +100°C	From -40°C to +100°C
UV resistance	Very good	Very good	Good
Paintability**	After appr. 2 hours	After appr. 2 hours	Good
Elasticity	Very good	Very good	Good
Filling capacity	Very good	Very good	Very good

* Drying times may vary depending on surface, quantity of product applied, moisture content and ambient temperature, among other factors.

** Test beforehand

Technical specifications

AQUA MAX®

