Flexbond HD100

General purpose hybrid polymer adhesive sealant

DESCRIPTION

Flexbond HD100 is a one-component, solvent-free, general purpose hybrid polymer adhesive sealant specially designed to form a flexible and permanent bonding agent and adhesive for a wide range of substrates and construction materials.

Flexbond HD100 is based on a hybrid polymer that conditions its universal application. It cures at room temperature in the presence of moisture to form a permanently flexible product with outstanding adhesion.

Flexbond HD100 provides strong and reliable hold without sagging. It also offers excellent processing properties and exhibits exceptional storage stability, ensuring consistent performance over time.

APPLICATIONS

Flexbond HD100 is suitable for adhering and fixing several types of materials on common substrates including concrete, masonry, stone, aluminium, galvanized steel, ceramic, porcelain, glass, PVC, wood, mirrors, painted metals and steel.

Examples of applications include but are not limited to:

- Cover plates, gaskets and coverings.
- Paver caps, masonry veneer and faux stone.
- Roof tiles.
- Fixing pedestals in raised access floors.
- Various truck, bus and trailer assemblies.
- Wood or metal window and door frames.

ADVANTAGES

- High adhesion strength with all common construction materials.
- Strong and reliable hold without sagging.
- Fast curing rate.
- Highly durable.
- Easy to process from +5°C to +50°C.
- Excellent weathering resistance.
- Wide service temperature range.
- Non-corrosive.
- Water-resistant.

STANDARDS

Flexbond HD100 complies with EN 15651-1:2017, F-EXT-INT-CC, Class 7.5P*.

**Except for elastic recovery.*

TECHNICAL PROPERTIES @ 23°C, 50% RH:	
Colour:	White
Density:	1.49 ± 0.05 g/cm³
Skin time:	30 - 40 min
Tack free time: ASTM C679	40 - 60 min
Hardness Shore A: ASTM C661	50 ± 5 @ 7 days
Full cure:	7 days
Curing rate:	≈ 2.5 - 3.5 mm/day
Elongation: ASTM D412	> 350% @ 7 days
Tensile strength: ASTM D412	> 2 MPa @ 7 days
Tear strength: ASTM D624	10 N/mm
Service temperature:	-20 up to 70°C
Application temperature:	5 up to 50°C
Effects of accelerated weathering: ASTM C793	Pass No cracking
Effect of heat aging: ASTM C1246	Pass @ 70°C
VOC: ASTM D2369	≤ 10 g/ltr (comply with LEED)

Performance Characteristics	EN 15651 Requirements (Class 7.5P)	Measured Value
Tensile properties (Elongation at break)	≥ 25%	≥ 50%
Loss of volume	≤ 25%	≤ 7%
Resistance to flow	≤ 3 mm	Nil
Adhesion/Cohesion After water immersion (Elongation @ 23°C)	≥ 25%	≥ 30%

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Flexbond HD100

METHOD OF USE

SURFACE PREPARATION

All substrates should be clean, dry, free from dust, oil, grease and any contaminations that could affect the adhesion. If the substrates need clean, use methyl ethyl ketone (MEK), acetone or grease remover. Always be sure that the substrates are dry before the application.

APPLICATION

The recommended application temperature range is 5°C to 50°C. For cold weather applications, it is recommended to store the product in a heated area at 20°C for 24 hours before use. Extrude the adhesive firmly on the bonding surface in a bead or as spot welding.

LIMITATIONS

- Not suitable for applications involving continuous water immersion.
- Not intended for high-movement joint sealing applications.
- Not recommended for use on PE, PP, PTFE, bituminous substrates, or materials that release plasticizers such as bitumen, tar, EPDM, neoprene, or butyl rubber as it may lead to discoloration or loss of adhesion.
- Adhesion to certain plastics may vary depending on formulation and manufacturer; a preliminary compatibility test is recommended.
- Prolonged or intense UV exposure may cause slight colour change.
- When bonding non-porous substrates or applying thick adhesive layers, curing time may be extended.
- When overcoating or finishing adjacent surfaces, avoid smearing uncured adhesive onto visible areas.
- For very heavy components, provide temporary mechanical support until the adhesive has fully cured.
- Lower temperatures and low humidity levels may extend skin formation and final curing times.
- Avoid contact with alcohols and other solvents during application and curing, as this may adversely affect the performance of the uncured adhesive.
- Adhesion to painted or coated substrates depends on the type, age, and condition of the coating. A preliminary adhesion test is recommended.
- Paintability may vary depending on the paint system and curing conditions. Compatibility with specific paint systems should be verified by preliminary testing. Rigid or low-flexibility coatings may adversely affect the appearance or adhesion of the applied paint layer.

CLEANING

Clean tools and equipment first with paper towels and then wipe with Acetone, xylene or other suitable solvents.

PACKAGING

Flexbond HD100 is available in 280 ml cartridges.

STORAGE

Flexbond HD100 should be stored in original unopened packages at temperatures between 5°C and 25°C in a dry place.

SHELF LIFE

Flexbond HD100 has a shelf life of 12 months from date of manufacture if stored under the recommended conditions.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Flexbond HD100 comes into contact with the eyes, flush with copious amounts of cold water and obtain medical attention.
Product is non-hazardous once cured.

For further information, refer to the Material Safety Data Sheet.

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A wide range of construction chemical products are manufactured by DCP which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.

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