



LMH25

Low Modulus Hybrid Construction Sealant And Adhesive

Technical Data Sheet



BLUEPRINT RANGE OF HYBRID SEALANTS & ADHESIVES

CLASS
EN15651-1: F EXT-INT
25LM CC

Description:

A one part, high quality, low modulus, sealing material based on advanced hybrid polymer technology.

Features & Benefits:

- ◆ **Solvent-free & low odour.**
- ◆ **Easy to tool and finish.**
- ◆ **Can be overpainted with waterbased paints.**
- ◆ **UV resistant.**
- ◆ **Quick curing.**
- ◆ **Contains no isocyanates, solvents, silicone and phthalates.**
- ◆ **Excellent adhesion to most surfaces (even moist surfaces).**
- ◆ **For sealing and bonding interior and exterior applications.**
- ◆ **Very low emissions, EC1+ certified).**

Uses

A tough, flexible hybrid sealant ideal for installing internal and external window and door frames. Can also be used for sealing expansion and connection joints between most common substrates, without the use of a primer. Provides long term weather resistant joints around fenestration and wall transitions. Suitable for use on most common building surfaces such as aluminium, uPVC, glass, glazed ceramics or (lacquered) wood, even without a primer. Sealant may also be applied to lightly moist (not saturated) surfaces. Suitable for indoor and outdoor use.

Limitations

The product should not be allowed to exceed temperatures of +30°C prior to use. At higher temperatures, the viscosity of the product reduces and becomes more difficult to tool and handle. Cannot be applied to saturated surfaces. For use on bitumen-based substrates or natural stone, a suitable primer must be used. Prestressed PMMA and Polycarbonate (PC) could result in stress cracking of the plastics. For these substrates, we recommend conducting preliminary tests. Not recommended as a glazing sealant for bedding in glass, for this application we would recommend our LN7 silicone. Not suitable for bonding aquariums. Do not use on surfaces that bleed oils or plasticisers or use with natural stone applications. Sealant may discolour under extreme conditions and long exposure to UV light. Can be over-painted with water-based paints, always test compatibility before use.

Preparation

Ensure all surfaces are clean and free from grease, oil or any other contaminants that may hinder adhesion. Surfaces may be moist but not overly saturated with water.

Application

Carefully cut the top of the cartridge taking care not to damage the threaded area. Screw on the nozzle supplied and cut at an angle approximately 45°. Apply, using a standard caulking gun, in a continuous bead along the aperture and leave to fully cure. Smooth the joint by tooling with a soapy solution or using a SEALANT APPLICATOR TOOL. Remove any excess material and clean tools immediately. On non-porous surfaces use SPIRIT (as it will remain in the substrate and affect over painting) for porous surfaces clean using MULTI-WIPES.



Coverage

Depending upon substrate condition and porosity approximately 10 linear metres with a 6mm bead per cartridge.

Colour

Available in white, brick red, dark anthracite, rosewood, buff, anthracite and mid grey.

Size

EU3 & EU4 plastic cartridge.

Shelf Life

Minimum 12 months from date of manufacture, when stored in original, unopened cartridges.

Storage Conditions

Store in original, unopened cartridge, in a cool, dry place at a temperature between +5°C and +25°C. Stored or used outside of these limits can affect tooling and skin time of the sealant. Protect from frost and direct sunlight.

Disposal of Containers

Do not leave empty containers where residue could be harmful to children, animals or the environment. Remove any containers to a central disposal point in accordance with local regulations.

Health & Safety

Please refer to separate safety data sheet (SDS) for full handling, use and storage instructions. Keep out of reach of children. It is the user's responsibility to determine suitability for use. If in doubt, contact our Technical Department for advice.

Note: this information is for general guidance only, since site conditions and labour are beyond our control.

Specification Summary

Tooling Time	5-10 minutes
Skin Time (at +23°C and 50% RH)	Min 22 minutes +/-5
Full Cure Time (at +23°C / 50%RH)	ca.2mm depth per day
Application Temperature	0°C to +30°C
Service Temperature	-40°C to +90°C
Shore A Hardness	25+/-5
Tensile Strength (DIN EN ISO 527-2)	0.95N/mm ²
Elongation At Break (DIN EN ISO 527-2)	500%
Movement Capability	25%
Modulus 100% (DIN EN ISO 527-2)	0.4 N/mm ²
Volume Shrinkage (DIN EN ISO 10563)	>70%
Elastic Recovery (DIN EN ISO 7389-B)	<5%
Density	1.40+0.02g/cm ³
Commodity Code	3214101000

Product / Order Details

Code	Colour	Fill	Barcode	UFI
BDLMHWH	White	285ml	5056437401601	6X90-10RJ-D00K-T7VA
BDLMHWH4	White	350ml	5056437401618	6X90-10RJ-D00K-T7VA
BDLMHBD4	Brick Red	350ml	5056437401830	6X90-10RJ-D00K-T7VA
BDLMHWH4	Dark Anthracite	350ml	5056437401847	6X90-10RJ-D00K-T7VA
BDLMRW4	Rosewood	350ml	5056437401823	6X90-10RJ-D00K-T7VA
BDLMHBU4	Buff	350ml	5056437401854	6X90-10RJ-D00K-T7VA
BDLMHAN4	Anthracite	350ml	5056437401861	6X90-10RJ-D00K-T7VA
BDLMHMG4	Mid Grey	350ml	5056437401878	6X90-10RJ-D00K-T7VA



Part of the Bond It Blueprint Sealant & Adhesive Range

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BOND IT H4 Premier Way, Elland. HX5 9HF. UK	
EN15651-1:2012 F - EXT - INT 25LM CC DoP: BDLMH DoP: BDLMH NB: 1023 NB: 1023 Facade sealant for interior and exterior use	
Reaction to fire	E
Release of chemicals	Evaluated
Resistance to flow	< 3mm
Loss of volume	<5%
Tensile properties after water immersion	Pass
Durability	Pass

Note: The data presented in this leaflet is in accordance with the present state of our knowledge, but does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties rights and, if necessary clarifying the position. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the products for a particular purpose.



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