



FULAFLEX 550 PU LM

Description

Fulaflex 550 PU LM is a one-component moisture-curing low modulus Class A polyurethane sealant with excellent joint movement capabilities. It cures into a flexible, durable and weather resistant sealant and exhibits excellent adhesion to a wide range of substrates. Fulaflex 550 PU LM is low in VOC (<60g/L) and satisfies the requirements for the Green Building Council of Australia (GBCA).

Benefits

- Easy application, simple clean up – minimal mess
- Excellent adhesion to many surfaces
- Excellent UV resistance
- Paintable
- Low modulus
- Low VOC – ca. 58g/L
- Excellent flexibility (tested to \pm 35% ISO 9047)
- Fast curing after skinning – Ideal for applications requiring a fast turnaround
- Non-hazardous according to Safe Work Australia criteria

Uses

- Building joints with high movement
- Joints in pre-cast and tilt-up concrete elements
- Connection joints between windows, doorframes and walls
- Joints in brickwork, masonry and blockwork
- Perimeter fillets in waterproofing membrane systems

Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia

Tel: +61 1800 423 855
customer.service@hbfuller.com

China & Hong Kong

Tel: +86 20 82068291
cs.china@hbfuller.com

Indonesia

Tel: +62-21-5307232/33

Korea

Tel: +82 2 786 8296
cskorea@hbfuller.com

Malaysia

Tel: +603 3345 5200

New Zealand

Tel: +64 800 555 072
customer.service@hbfuller.com

Philippines

Tel: +63 2 5194073

Taiwan

Tel: +886 2 26033385

Thailand

Tel: +66 2 3757442

Vietnam

Tel: +84 8 22225588





Performance Data

Property	Data
Specific Gravity	ca. 1.30
Sag	0mm (25mm x 12mm joint)
Tooling Time	ca.40 minutes @ 23°C & 50% RH
Skinning Time	ca. 40-60min, 23°C, 50% RH
Cure Rate	ca. 2-3mm/day (23°C)
Hardness (Shore A)	ca. 30
Shrinkage	4% Max
Max Elongation	>700%
Flexibility (ISO 9047)	± 35%
Elastic Recovery	ca. 99% @ 100% extension
Modulus – 50%	ca. 0.60MPa
Modulus – 100%	ca. 0.70MPa
Modulus - Max	ca. 2.20MPa
Service Temperature	-40°C to +90°C

Coverage (600ml sausage)

Joint Width mm	Joint Depth mm	Yield (Linear metres)
6 (min)	6	16.7
10	10	6.0
12	12	4.2
18	12	2.7
24	12	2.1
30 (max)	15	1.5

Surface Preparation

All surfaces must be clean, dry, sound and free of dust, oil, old sealant or other contamination.

Lightly contaminated surfaces should be wiped with Isopropyl Alcohol (IPA) using the 2-rag wipe method. Apply IPA to a clean lint-free cloth and wipe onto the surface to be cleaned to solubilize and remove the majority of the contaminant. A clean dry cloth should then be applied to remove remaining contamination and dry the surface. Ensure wet cleaner is not allowed to dry on surface. For more heavily contaminated surfaces or where the IPA does not remove the contaminant, a generic wax and grease remover should be applied using the same 2-rag wipe method. Once this has been completed the surface should be given a final clean with IPA using the 2-rag wipe method to ensure the surface is adequately prepared. Adhesion to metals and some surface finishes can be further improved by light abrasion prior to cleaning with IPA using the 2 rag-wipe method. Manufacturers of plastics should be consulted about suitable cleaning solvents. Adhesion to plastics should be pre-tested. Mask either side of joint to produce a neat finish.

Use a suitable sized foam backing rod or polyethylene bond breaker tape to prevent three sided joint contact impeding the free and even deformation of the sealant in a cyclic joint. Open-cell polyurethane foam is recommended. Use a size 25% wider than the joint width that will compress when inserted into the joint.

Priming – For difficult substrates

In conditions where a primer is necessary prior to application of Fulaflex 550 PU LM, HB Fuller recommends the application of TEC Multipurpose Primer on approved substrates. Apply primer as detailed on the TEC Multipurpose primer datasheet, allowing time to cure, before applying Fulaflex 550 PU LM

Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia
Tel: +61 1800 423 855
customer.service@hbfuller.com

China & Hong Kong
Tel: +86 20 82068291
cs.china@hbfuller.com

Indonesia
Tel: +62-21-5307232/33

Korea
Tel: +82 2 786 8296
cskorea@hbfuller.com

Malaysia
Tel: +603 3345 5200

New Zealand
Tel: +64 800 555 072
customer.service@hbfuller.com

Philippines
Tel: +63 2 5194073

Taiwan
Tel: +886 2 26033385

Thailand
Tel: +66 2 3757442

Vietnam
Tel: +84 8 22225588





as per guidelines. All surfaces should be cleaned prior to the application of TEC Multipurpose Primer.

Product Application

Insert the sausage into the applicator gun and make a small incision at the extrusion end of the sausage. Fit the barrel end and nozzle, with the nozzle cut to deliver the appropriate bead size.

Gun Fulaflex 550 PU LM by pressing the trigger to continuously fill the joint - while ensuring that air does not get trapped in the sealant/joint. After filling an appropriate length of joint, smooth the sealant with a spatula or trowel, pressing the sealant into the joint to form the required finish while ensuring the sealant fills the joint and is complete contact with the substrates. The application tool should contact the entire surface that is required to be tooled, and may be dipped in solution of detergent/soap and water (approx. 1:5 ratio), ensuring that the solution does not get into the bonding areas

Good joint design in the construction industry necessitates a joint width equal to 4 times the anticipated movement of building components. The theoretically derived 2:1 movement factor is based on thermal movement alone and doesn't allow for variances found at the job site and therefore should not be used. The 4:1 design factor accommodates both thermal movement and wide variations in tolerances of construction materials, fabrication and erection often found in the field.

This will also accommodate joints installed narrower than originally designed.

In standard expansion joints, the joint should be minimum 6mm width. For joints between 6mm and 12mm width, the depth of the sealant should be the same as the width.

Joint Configurations – Depth vs width

Joint Width mm	Joint Depth mm
6 to 12mm	Same as width
12 to 24mm	12mm
24 to 30mm	Half width

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia
Tel: +61 1800 423 855
customer.service@hbfuller.com

China & Hong Kong
Tel: +86 20 82068291
cs.china@hbfuller.com

Indonesia
Tel: +62-21-5307232/33

Korea
Tel: +82 2 786 8296
cskorea@hbfuller.com

Malaysia
Tel: +603 3345 5200

New Zealand
Tel: +64 800 555 072
customer.service@hbfuller.com

Philippines
Tel: +63 2 5194073

Taiwan
Tel: +886 2 26033385

Thailand
Tel: +66 2 3757442

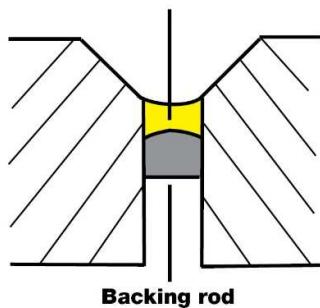
Vietnam
Tel: +84 8 22225588





Correct and incorrect joint designs

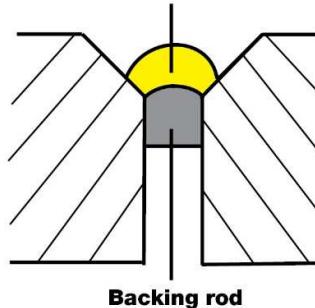
Sealant



Correct

Sealant applied on backing rod using correct sealant dimensions

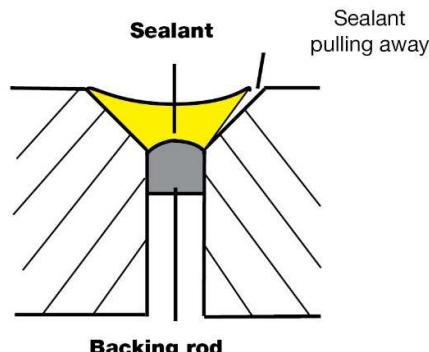
Sealant



Correct

Alternative method of installation preserves ability of sealant to expand and contract

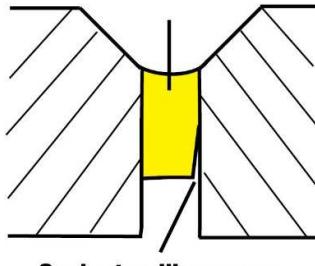
Sealant



Wrong

Sealant applied onto chamfered edge where concrete may be weak

Sealant



Wrong

Sealant extends too deep into joint leading to tearing away from sides or splitting

Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia

Tel: +61 1800 423 855

customer.service@hbfuller.com

China & Hong Kong

Tel: +86 20 82068291

cs.china@hbfuller.com

Indonesia

Tel: +62-21-5307232/33

Korea

Tel: +82 2 786 8296

cskorea@hbfuller.com

Malaysia

Tel: +603 3345 5200

New Zealand

Tel: +64 800 555 072

customer.service@hbfuller.com

Philippines

Tel: +63 2 5194073

Taiwan

Tel: +886 2 26033385

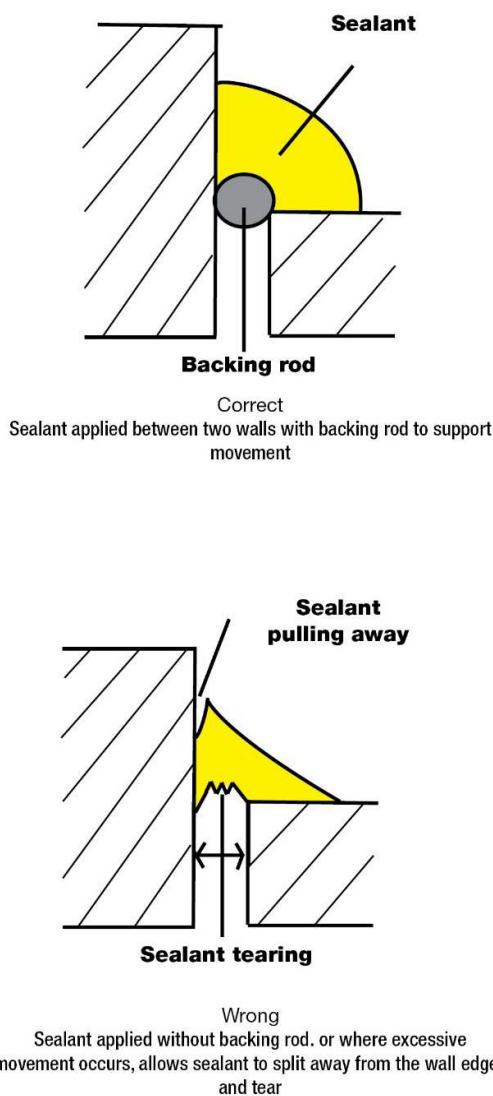
Thailand

Tel: +66 2 3757442

Vietnam

Tel: +84 8 22225588





Painting

FULAFLEX 550 PU LM may be painted with most water based paints and other paint systems including waterproof membranes, once a firm skin has developed.

However, test if unsure, especially when industrial grade coatings are used, to ensure that:

- The coating bonds to Fulaflex 550 PU LM satisfactorily
- The coating does not affect the curing of Fulaflex 550 PU LM (e.g. allows moisture to reach the sealant surface if applied over a non-porous surface where the sealant is painted prior to full cure)
- That Fulaflex 550 PU LM does not affect the cure of the coating (e.g. result in a sticky surface). Some solvent based coatings may remain sticky for extended periods of time.
- The coating does not craze after application over Fulaflex 550 PU LM

Most coating systems are incapable of achieving similar rates of flexibility as Fulaflex 550 PU LM. As such, surface coatings may crack as a result of cyclic joint movement. HB Fuller recommend the use of a premium quality acrylic emulsion paint over Fulaflex 550 PU LM.

Chemical Resistance

Resistant to intermittent exposure to salt water, grease, oils, fuels, defrosting liquid, detergents, aliphatic fats, mildew, weak acids and bases (pre testing required).

Curing

The rate of cure depends on the air temperature and humidity, the cross sectional area of the bead of sealant and the surface

Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia
Tel: +61 1800 423 855
customer.service@hbfuller.com

China & Hong Kong
Tel: +86 20 82068291
cs.china@hbfuller.com

Indonesia
Tel: +62-21-5307232/33

Korea
Tel: +82 2 786 8296
cskorea@hbfuller.com

Malaysia
Tel: +603 3345 5200

New Zealand
Tel: +64 800 555 072
customer.service@hbfuller.com

Philippines
Tel: +63 2 5194073

Taiwan
Tel: +886 2 26033385

Thailand
Tel: +66 2 3757442

Vietnam
Tel: +84 8 22225588





area of sealant exposed to the air. At 23°C and 50% relative humidity cure rate is 2-3mm / 24 hours. In general, low humidity and/or low temperature will result in longer cure times. Thicker sections of sealant will have longer cure times. A small surface area in relation to the volume of sealant will also extend the cure time.

Shelf Life

12 months unopened packaging in a cool and dry storage area at temperatures between +5C and +25C.

Clean Up

Best results are obtained by masking prior to sealing to avoid the necessity for clean up. However, if sealant is applied to areas where it is unwanted, clean up uncured sealant using toluene*, xylene*, methyl ethyl ketone*, acetone* or mineral turpentine* and a cloth. Take precautions to avoid staining substrates when using solvents. Cured sealant should be removed by abrasion or trimmed with a sharp knife. Do not undercut seal.

Safety Information

This product is not considered to be hazardous according to criteria of SWA. Avoid contact with skin and eyes. Store in a dry place below 30°C. Keep out of reach of children. A MSDS is available from the H.B. Fuller representative in your state, HB Fuller Australia customer service, or downloadable from the HB Fuller web site, www.hbfuller.com.au. For Poisons Information Centre phone 13 11 26.

Limitations

- Not for use in water retaining structures unless used in conjunction with waterproofing membrane.
- Fulaflex 550 PU LM Sealant should not be applied to frost-bearing surfaces or if temperature will fall below zero degrees Celsius.
- When painted with oxidative drying paints disturbances in the drying of the paint may occur.
- Because of the diversity of paints available it is recommended to complete a compatibility test before application.
- Do not attempt to finish/tool the sealant in a joint using the chemicals described in the clean-up section, as they will irreversibly affect the sealant. Only use these chemicals to clean up uncured sealant from tools and equipment.
- Not for use in joints contaminated with oil, grease, wax, dust, corrosion, tar, asphalt, loose aggregate, frost, dampness, form-release agents or other such coatings impregnations.
- Not for exposure to harsh chemicals – Fulaflex 550 PU LM does have some level of chemical resistance, pre-testing for contact with chemicals is recommended
- Not suitable for glazing with glass, acrylic or Polycarbonate sheets. Refer other comments with regard to glass in substrates and surface preparation sections.
- Not for use on Marble or other highly porous stone without pre-testing for staining.
- Not recommended for use on bituminous surfaces or on materials that bleed oils, plasticisers or solvents, as this will affect adhesion.

Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia
Tel: +61 1800 423 855
customer.service@hbfuller.com

China & Hong Kong
Tel: +86 20 82068291
cs.china@hbfuller.com

Indonesia
Tel: +62-21-5307232/33

Korea
Tel: +82 2 786 8296
cskorea@hbfuller.com

Malaysia
Tel: +603 3345 5200

New Zealand
Tel: +64 800 555 072
customer.service@hbfuller.com

Philippines
Tel: +63 2 5194073

Taiwan
Tel: +886 2 26033385

Thailand
Tel: +66 2 3757442

Vietnam
Tel: +84 8 22225588





- Open cell backing rod is recommended. Always take care when handling closed cell polyethylene backer rod during installation, so as not to pierce the rod.
- The presence of other curing sealant technologies in the vicinity (such as some silicones and MS Polymers), or exposure to alcohol during curing may prevent FULAFLEX 550 PU LM from curing.

Disclaimer

This technical data sheet summarizes at the date of issue to the best technical knowledge of HB Fuller Australia. Since HB Fuller Australia cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this technical data sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Version 12

TDS Date: 29/11/2017

Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia

Tel: +61 1800 423 855
customer.service@hbfuller.com

China & Hong Kong

Tel: +86 20 82068291
cs.china@hbfuller.com

Indonesia

Tel: +62-21-5307232/33

Korea

Tel: +82 2 786 8296
cskorea@hbfuller.com

Malaysia

Tel: +603 3345 5200

New Zealand

Tel: +64 800 555 072

customer.service@hbfuller.com

Philippines

Tel: +63 2 5194073

Taiwan

Tel: +886 2 26033385

Thailand

Tel: +66 2 3757442

Vietnam

Tel: +84 8 22225588

