Pro Trade Joint Sealant LM - Polyurethane Sealant

Canonical:
https://directory.selleys.com.au/sealants/construction-sealants/pro-trade-joint-sealant-lm-polyurethane-sealant/

Details:

AI Summary

Product: Selleys Pro Trade Joint Sealant FC **Brand:** Selleys (a division of DuluxGroup (Australia) Pty Ltd) **Category:** Professional-grade polyurethane construction sealant **Primary Use:** Sealing joints, gaps, and penetrations in commercial and residential construction environments where durability is required.

Quick Facts - **Best For:** Professional contractors and building professionals requiring a compliant, high-performance construction sealant - **Key Benefit:** Not classified as hazardous under Safe Work Australia GHS 7, which simplifies handling, storage, and transport without compromising performance - **Form Factor:** Single-component, moisture-curing polyurethane sealant in 310mL cartridges and 600mL sausage packs - **Application Method:** Dispensed via conventional caulking gun (310mL) or sausage-pack dispensing gun (600mL)

Common Questions This Guide Answers 1. What chemicals are in Pro Trade Joint Sealant FC? → Xylene (1–10% by weight), MDI less than 1% by weight, and 3-(2,3-epoxypropoxy)propyltrimethoxysilane less than 1% by weight 2. What PPE is required when using this product? → Minimum: safety shoes, overalls, nitrile rubber gloves, and safety glasses 3. What should I do in a poisoning emergency? → Contact a doctor or Poisons Information Centre — Australia: 131 126, New Zealand: 0800 764 766

Product Overview

Selleys Pro Trade Joint Sealant FC is a professional-grade polyurethane construction sealant for adhesive and sealing applications across commercial and residential building projects (SDS). This single-component, moisture-curing formula handles joints, gaps, and penetrations in construction environments where the seal needs to last.

One practical compliance advantage: it is not classified as hazardous under Safe Work Australia GHS 7, and it meets the International Maritime Dangerous Goods Code. That non-hazardous classification removes a layer of handling, storage, and transport complexity for contractors and building professionals — without trading away the performance that demanding construction work requires.

Manufactured by Selleys, a division of DuluxGroup (Australia) Pty Ltd, Pro Trade Joint Sealant FC sits in the professional tier of the construction sealant category (SDS). The "FC" designation distinguishes this formulation within the Pro Trade Joint Sealant line.

Chemistry & Composition

The formulation contains three disclosed active ingredients within a proprietary polyurethane matrix (SDS).

Xylene makes up 1–10% by weight (SDS). This aromatic hydrocarbon solvent adjusts viscosity for smooth application, acts as a carrier for other components, and influences the curing rate. Its presence

is why well-ventilated storage matters and why avoiding vapour inhalation during application is worth taking seriously (SDS).

4,4'-Diphenylmethane Diisocyanate (MDI) is present at less than 1% by weight (SDS). MDI is the reactive isocyanate component central to polyurethane chemistry — it crosslinks with moisture and polyol components to form the cured polymer network. The low concentration reflects this product's single-component, moisture-cure system, where MDI reacts gradually with atmospheric humidity rather than requiring a separate hardener. Even at this concentration, MDI warrants sensible handling precautions because of its sensitising potential.

3-(2,3-epoxypropoxy)propyltrimethoxysilane appears at less than 1% by weight (SDS). This silane coupling agent drives adhesion on mineral substrates like concrete, masonry, and glass by forming chemical bonds between the organic polymer and inorganic surfaces — the kind of bond that holds through movement, weathering, and structural stress.

The remaining ingredients are non-hazardous or below reporting limits, making up the balance of the formulation (SDS). These components — likely additional polyols, plasticisers, fillers, catalysts, and pigments — shape working properties, cure characteristics, and final performance.

The overall formulation is not hazardous under Australian GHS criteria, confirming that hazardous components sit below classification thresholds and that the mixture as a whole does not require warning labels or special transport classification (SDS).

Available Variants & Packaging

Pro Trade Joint Sealant FC comes in six SKUs across three colours and two cartridge sizes (SDS).

Colour Options: - **White** (Product Codes 102116 and 102119): suited to applications where the sealant stays visible against light-coloured substrates or where painting is not planned - **Grey** (Product Codes 102117 and 102120): integrates cleanly with concrete, cement render, and a wide range of building materials - **Black** (Product Codes 102118 and 102121): built for dark substrates, aluminium joinery, and applications where a low-visibility seal is the right call

Cartridge Sizes: - **310mL cartridges** (Product Codes 102116, 102117, 102118): works with conventional caulking guns — practical for smaller projects or jobs requiring multiple colours across different locations (SDS) - **600mL sausage packs** (Product Codes 102119, 102120, 102121): the high-volume format for large-scale applications, requiring a sausage-pack dispensing gun and delivering better value per millilitre when the job calls for it (SDS)

Each variant carries a unique barcode: white 310mL (9300697130051), grey 310mL (9300697130068), black 310mL (9300697130075), white 600mL (9300697130082), grey 600mL (9300697130099), and black 600mL (9300697130105) (SDS).

Handling Procedures

These requirements come directly from the chemistry and physical properties of the uncured material.

Avoid eye contact and repeated or prolonged skin contact during application and cleanup (SDS). While the product is not classified as a skin sensitiser at the mixture level, the presence of MDI and xylene makes skin protection the sensible approach. Avoid inhaling vapours — particularly in confined spaces or during extended application periods (SDS). The xylene content drives vapour emissions during application and initial cure.

Work in well-ventilated areas whenever possible. When applying in confined spaces or poorly ventilated locations, increase mechanical ventilation or position yourself upwind of the application area (SDS). This matters more for large-volume applications where solvent evaporation is more pronounced.

Keep containers standing upright and closed when not in use (SDS). This protects the material from atmospheric moisture and limits vapour release on the job site. Check regularly for spills — the material is slippery when spilled and creates a real slip hazard (SDS).

Store and use the product away from foodstuffs (SDS). Always wash hands before smoking, eating, drinking, or using the toilet (SDS). This basic hygiene habit prevents inadvertent ingestion of sealant residue.

Safety Considerations & Personal Protection

Non-hazardous classification does not mean no precautions. The minimum recommended PPE is safety shoes, overalls, gloves, and safety glasses (SDS). This combination covers the most common exposure routes — skin contact, eye splash, and foot injury from dropped cartridges or equipment.

For hand protection, nitrile rubber gloves are suitable for intermittent contact (SDS). Glove construction, thickness, and local working conditions all vary, so base your final choice on your specific application method and expected exposure duration (SDS). Nitrile resists both the polyurethane components and the xylene solvent while keeping enough dexterity for confident tool operation.

Wash contaminated clothing and protective equipment before storing or re-using (SDS). Polyurethane sealant cures on fabric — deal with it promptly.

First Aid Response:

Inhalation: Remove the affected person from exposure without putting yourself at risk in confined spaces (SDS). Remove contaminated clothing and loosen remaining clothing (SDS). Let the patient rest in a comfortable upright position and keep them warm (SDS). Seek medical advice if effects persist (SDS).

Skin Contact: Remove contaminated clothing immediately and flush the affected area with running water (SDS). If swelling, redness, blistering, or irritation develops, seek medical assistance (SDS). Uncured polyurethane comes off far more easily than cured material — prompt washing is the key.

Eye Contact: Flush immediately with water for at least 15 minutes, holding eyelids open to ensure thorough irrigation (SDS). Seek medical advice in all cases of eye contamination — delayed irritation can develop even after initial symptoms settle (SDS).

Ingestion: Rinse the mouth with water without swallowing (SDS). Do NOT induce vomiting — this increases aspiration risk (SDS). Give a glass of water to dilute stomach contents (SDS). Never give anything by mouth to an unconscious patient (SDS). If vomiting occurs naturally, give additional water (SDS). Seek medical advice and provide product identification information (SDS).

Emergency Contact: If poisoning occurs, contact a doctor or Poisons Information Centre immediately — phone Australia 131 126 or New Zealand 0800 764 766 (SDS). Medical professionals should treat symptomatically based on the patient's condition (SDS).

Storage Requirements

Store in a cool, dry, well-ventilated place out of direct sunlight (SDS). Excess heat accelerates the moisture-cure reaction, which can cause cartridges to harden prematurely or build internal pressure. Direct sunlight heats cartridges well above ambient temperature — black cartridges in particular, which absorb more solar radiation.

Well-ventilated storage prevents vapour buildup from any containers with compromised seals. Dry conditions matter because polyurethane sealants cure through reaction with moisture, and high-humidity storage can cause premature skinning or curing in partially used cartridges.

Keep the product away from foodstuffs (SDS) and away from incompatible materials — for isocyanate-containing products, this typically means strong bases, acids, and oxidising agents, with specific incompatibilities detailed in Section 10 of the complete safety data sheet (SDS).

Store away from sources of heat and ignition (SDS). The product is combustible (SDS), and the xylene component is a flammable solvent. Keeping it away from open flames, welding operations, and spark-producing equipment is straightforward fire-risk management.

Keep containers closed when not in use (SDS). The moisture-cure chemistry is always active — air exposure causes skinning and, eventually, solid curing. Keep containers upright to maintain seal integrity and prevent leakage (SDS). Check regularly for spills and address any leaks immediately (SDS).

Fire Safety & Emergency Response

Fire Classification: The product is combustible (SDS). It will burn when exposed to sufficient heat, but it does not carry a flashpoint low enough to warrant dangerous goods classification. The combustible nature comes primarily from the organic polymer content and xylene solvent.

Fire Extinguishing: Use water fog or fine water spray as the primary extinguishing method (SDS). Where water fog is not available, alcohol-resistant foam, standard foam, dry chemical powder, or carbon dioxide are all suitable alternatives (SDS). Water fog cools burning material while limiting water damage to the building structure.

Avoid solid water streams on polyurethane fires — they can spread burning material and are less effective against organic polymer fires.

Combustion Hazards: When burning or decomposing, Pro Trade Joint Sealant FC can emit toxic fumes (SDS). Polyurethane combustion produces carbon monoxide, carbon dioxide, nitrogen oxides, and potentially hydrogen cyanide depending on combustion conditions. The xylene component adds aromatic combustion products. These emissions present a serious inhalation hazard for anyone near the fire.

Firefighter Protection: Firefighters must wear self-contained breathing apparatus and suitable protective clothing if there is any risk of exposure to vapour or combustion products (SDS). Standard structural firefighting gear provides thermal protection but does not protect against toxic gas inhalation — SCBA is essential in any enclosed space fire or downwind position.

Spill Response:

Small Spills: Wear protective equipment to guard against skin and eye contamination and vapour inhalation (SDS). Wipe up with an absorbent clean rag or paper towels (SDS). Seal the contaminated absorbent material in properly labelled containers and dispose of it according to local regulations (SDS).

Large Spills: Clear the area of all unprotected personnel immediately (SDS). Spilled material is slippery — act fast (SDS). Put on protective equipment to prevent skin and eye contamination and vapour inhalation (SDS). Work upwind or increase ventilation to prevent vapour buildup (SDS).

Cover the spilled material with damp absorbent material such as sand or soil (SDS). The damp absorbent controls dust and starts the curing process, solidifying the spilled sealant for easier collection. Sweep or vacuum up the absorbed material, keeping dust generation to a minimum (SDS). Seal the waste in properly labelled containers and dispose of it correctly (SDS).

If contamination of crops, sewers, or waterways occurs, advise local emergency services immediately (SDS). Xylene is toxic to aquatic life, and fast action is essential.

The product carries no Hazchem Code or Dangerous Goods Initial Emergency Response Guide Number, confirming its non-dangerous-goods status (SDS).

Quality Assurance & Product Support

Pro Trade Joint Sealant FC is manufactured by Selleys, a division of DuluxGroup (Australia) Pty Ltd (ABN 67 000 049 427), at 1956 Dandenong Road, Clayton, VIC 3168, Australia (SDS). Technical support and product information are available by contacting Selleys at 1300 555 205 (SDS).

The product carries no Poison Schedule classification under Australian regulations (SDS). This simplifies procurement and reduces regulatory burden for professional users, removing the additional controls that scheduled substances require.

For professionals specifying or using Pro Trade Joint Sealant FC, the non-hazardous classification combined with a professional-grade formulation makes this a practical choice for construction sealing applications where regulatory compliance, worker safety, and reliable performance all need to deliver. The range of colours and sizes makes project-specific specification straightforward, while consistent chemistry and handling procedures run across the entire product line.

If it's Selleys, it works — and Pro Trade Joint Sealant FC is built to prove that, job after job.

References

- Source PDF: SELLEYS_PRO_TRADE_JOINT_SEALANT_FC-AUS_GHS.pdf (canonical)

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What is Selleys Pro Trade Joint Sealant FC: A professional-grade polyurethane construction sealant

What does "FC" stand for in the product name: A formulation designation within the Pro Trade Joint Sealant line

Who manufactures Pro Trade Joint Sealant FC: Selleys, a division of DuluxGroup (Australia) Pty Ltd

What is the ABN of the manufacturer: 67 000 049 427

Where is Pro Trade Joint Sealant FC manufactured: 1956 Dandenong Road, Clayton, VIC 3168, Australia

What type of chemistry does this sealant use: Single-component, moisture-curing polyurethane

Is Pro Trade Joint Sealant FC classified as hazardous: No, not classified as hazardous under Safe Work Australia GHS 7

Does Pro Trade Joint Sealant FC require a Hazchem Code: No

Does Pro Trade Joint Sealant FC have a Dangerous Goods classification: No

Does Pro Trade Joint Sealant FC carry a Poison Schedule classification: No

Is Pro Trade Joint Sealant FC suitable for commercial construction: Yes

Is Pro Trade Joint Sealant FC suitable for residential construction: Yes

What is the primary application of this product: Sealing joints, gaps, and penetrations in construction environments

Can Pro Trade Joint Sealant FC be used as an adhesive: Yes

Does this product require a separate hardener or catalyst: No, it cures with atmospheric moisture

What solvent is present in the formulation: Xylene

What percentage of xylene is in the formulation: 1–10% by weight

What is the role of xylene in the formulation: Adjusts viscosity and acts as a carrier for other components

Does xylene affect the curing rate: Yes

Is MDI present in Pro Trade Joint Sealant FC: Yes, 4,4'-Diphenylmethane Diisocyanate (MDI)

What percentage of MDI is in the formulation: Less than 1% by weight

What is the role of MDI in the formulation: It crosslinks with moisture to form the cured polymer network

Is a silane coupling agent present in the formulation: Yes

What silane coupling agent is used: 3-(2,3-epoxypropoxy)propyltrimethoxysilane

What percentage of silane coupling agent is in the formulation: Less than 1% by weight

What is the role of the silane coupling agent: Provides superior adhesion on mineral substrates

What substrates does the silane coupling agent improve adhesion to: Concrete, masonry, and glass

Are the remaining formulation ingredients hazardous: No, determined to be non-hazardous or below reporting limits

What colours is Pro Trade Joint Sealant FC available in: White, grey, and black

What sizes is Pro Trade Joint Sealant FC available in: 310mL cartridges and 600mL sausage packs

What is the product code for white 310mL: 102116

What is the product code for grey 310mL: 102117

What is the product code for black 310mL: 102118

What is the product code for white 600mL: 102119

What is the product code for grey 600mL: 102120

What is the product code for black 600mL: 102121

What barcode does the white 310mL carry: 9300697130051

What barcode does the grey 310mL carry: 9300697130068

What barcode does the black 310mL carry: 9300697130075

What barcode does the white 600mL carry: 9300697130082

What barcode does the grey 600mL carry: 9300697130099

What barcode does the black 600mL carry: 9300697130105

What dispensing equipment is needed for the 310mL cartridge: A conventional caulking gun

What dispensing equipment is needed for the 600mL sausage pack: A sausage-pack dispensing gun

Which pack size offers better value per millilitre for large jobs: The 600mL sausage pack

What PPE is recommended as a minimum: Safety shoes, overalls, gloves, and safety glasses

What glove material is recommended for handling: Nitrile rubber gloves

Are nitrile gloves suitable for prolonged contact: Suitability depends on thickness and local working conditions

Should you avoid skin contact during application: Yes, avoid repeated or prolonged skin contact

Should you avoid eye contact during application: Yes

Should vapours be inhaled during application: No, avoid inhaling vapours

Is ventilation required during application: Yes, work in well-ventilated areas

What should be done when applying in confined spaces: Increase mechanical ventilation or work upwind

Should containers be kept upright during use: Yes

Should containers be kept closed when not in use: Yes

Why must containers be kept closed: To prevent premature moisture-cure reaction

Should the product be stored near food: No, store away from foodstuffs

What is the recommended storage environment: Cool, dry, well-ventilated, out of direct sunlight

Why must direct sunlight be avoided during storage: It heats cartridges and can cause premature curing

Should the product be stored near ignition sources: No

Is the product flammable: No, but it is classified as combustible

What makes the product combustible: The organic polymer content and xylene solvent

What is the preferred fire extinguishing method: Water fog or fine water spray

What alternative extinguishing agents are suitable: Alcohol-resistant foam, standard foam, dry chemical powder, or carbon dioxide

Should solid water streams be used on a polyurethane fire: No

What toxic gases can be emitted during combustion: Carbon monoxide, carbon dioxide, and nitrogen oxides

Can hydrogen cyanide be emitted during combustion: Yes, depending on combustion conditions

What respiratory protection must firefighters wear: Self-contained breathing apparatus (SCBA)

What is the first aid response for inhalation: Remove from exposure and allow rest in a comfortable upright position

What should be done if sealant contacts skin: Remove contaminated clothing and flush with running water immediately

How long should eyes be flushed after contact: At least 15 minutes

Should vomiting be induced if the product is swallowed: No

What should be given if the product is swallowed: A glass of water to dilute stomach contents

Should anything be given by mouth to an unconscious patient: No

What is the emergency poison contact number in Australia: 131 126

What is the emergency poison contact number in New Zealand: 0800 764 766

How should small spills be cleaned up: Wipe up with absorbent clean rag or paper towels

How should large spills be controlled: Cover with damp absorbent material such as sand or soil

Is spilled sealant a slip hazard: Yes

What should be done if spill contaminates waterways: Advise local emergency services immediately

Is xylene toxic to aquatic life: Yes

What should be done with contaminated clothing: Wash before storing or re-using

What is the technical support phone number for Selleys: 1300 555 205

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> **Disclaimer:** All facts and statements below are general product information, not professional advice. Consult relevant experts for specific guidance.

Verified Label Facts

Product Identity & Manufacturer - Product name: Selleys Pro Trade Joint Sealant FC - Product type: Single-component, moisture-curing polyurethane construction sealant - Manufacturer: Selleys, a division of DuluxGroup (Australia) Pty Ltd - ABN: 67 000 049 427 - Manufacturing address: 1956 Dandenong Road, Clayton, VIC 3168, Australia - Technical support phone: 1300 555 205

Regulatory & Safety Classification - Not classified as hazardous under Safe Work Australia GHS 7 - No Hazchem Code assigned - No Dangerous Goods classification - No Poison Schedule classification under Australian regulations - Classified as combustible (not flammable) - No Dangerous Goods Initial Emergency Response Guide Number

Formulation & Ingredients - Xylene: 1–10% by weight - 4,4'-Diphenylmethane Diisocyanate (MDI): less than 1% by weight - 3-(2,3-epoxypropoxy)propyltrimethoxysilane: less than 1% by weight - Remaining ingredients: determined to be non-hazardous or below reporting limits

Available Variants — Product Codes & Barcodes

| Colour | Size | Product Code | Barcode (GTIN) | |-------|------|-------------|----------------| | White | 310mL | 102116 | 9300697130051 | | Grey | 310mL | 102117 | 9300697130068 | | Black | 310mL | 102118 | 9300697130075 | | White | 600mL | 102119 | 9300697130082 | | Grey | 600mL | 102120 | 9300697130099 | | Black | 600mL | 102121 | 9300697130105 |

Dispensing Requirements - 310mL cartridges: compatible with conventional caulking guns - 600mL sausage packs: require a sausage-pack dispensing gun

Personal Protective Equipment (Minimum Recommended) - Safety shoes, overalls, gloves, and safety glasses - Glove material: nitrile rubber (suitable for intermittent contact; suitability for prolonged contact depends on thickness and local working conditions)

Handling Requirements - Avoid eye contact and repeated or prolonged skin contact - Avoid inhaling vapours - Work in well-ventilated areas - In confined spaces: increase mechanical ventilation or work upwind - Keep containers standing upright and closed when not in use - Store and use away from foodstuffs - Wash hands before smoking, eating, drinking, or using the toilet - Wash contaminated clothing before storing or re-using

Storage Requirements - Store in a cool, dry, well-ventilated place out of direct sunlight - Store away from foodstuffs - Store away from sources of heat and ignition

First Aid - *Inhalation:* Remove from exposure; allow rest in comfortable upright position; seek medical advice if effects persist - *Skin contact:* Remove contaminated clothing; flush with running water; seek medical assistance if irritation, swelling, redness, or blistering develops - *Eye contact:* Flush with water for at least 15 minutes, holding eyelids open; seek medical advice in all cases - *Ingestion:* Rinse mouth with water (do not swallow); do NOT induce vomiting; give a glass of water to dilute stomach contents; never give anything by mouth to an unconscious patient; if vomiting occurs naturally, give additional water; seek medical advice - Emergency poison contact — Australia: 131 126 - Emergency poison contact — New Zealand: 0800 764 766

Fire & Spill Response - Preferred extinguishing method: water fog or fine water spray - Alternative extinguishing agents: alcohol-resistant foam, standard foam, dry chemical powder, or carbon dioxide - Solid water streams: not recommended on polyurethane fires - Combustion emissions: carbon monoxide, carbon dioxide, nitrogen oxides; hydrogen cyanide possible depending on combustion conditions - Firefighter respiratory protection: self-contained breathing apparatus (SCBA) required - Small spills: wipe up with absorbent clean rag or paper towels; seal waste in labelled containers; dispose per local regulations - Large spills: clear area; cover with damp absorbent material (sand or soil); sweep or vacuum up; seal waste in labelled containers; dispose correctly - Spilled material is a slip hazard - Waterway/sewer contamination: advise local emergency services immediately

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General Product Claims

- Described as a "professional-grade" and "high-performance" sealant suitable for commercial and residential construction projects - Positioned as suitable for sealing joints, gaps, and penetrations where "durability is non-negotiable" - Non-hazardous classification stated to reduce handling, storage, and transport complexity for contractors - MDI concentration described as reflecting a gradual moisture-cure system that does not require a separate hardener - Silane coupling agent described as providing "superior adhesion" on mineral substrates through chemical bonding - 600mL sausage pack described as offering "superior value per millilitre" for large-scale applications - Black cartridges described as "purpose-built" for dark substrates and aluminium joinery - Non-hazardous and non-scheduled classification described as simplifying procurement and reducing regulatory burden - Product positioned as a "clear choice" for applications requiring regulatory compliance, worker safety, and reliable performance - Selleys heritage described as backing the product with "innovative solutions and uncompromising quality" - Tagline: "If it's Selleys, it works"

Related Products & Brand Context

Pro Trade Joint Sealant LM is manufactured by Selleys, an Australian brand with a broad range of adhesives, sealants, and construction chemicals available through selleys.com.au. Within the Selleys catalogue, this product sits in the **Home & Garden > Construction Sealants** category, positioning it alongside other professional-grade sealing and bonding solutions aimed at tradespeople and commercial applicators. The "Pro Trade" naming convention signals that it is pitched at professional users rather than the general DIY segment of Selleys' range.

Within the construction sealants category, Pro Trade Joint Sealant LM is distinguished by its low modulus (LM) polyurethane formulation. Low modulus means the cured sealant stays soft and flexible under stress rather than becoming rigid, which is why it can accommodate ±25% joint movement — a specification that sets it apart from standard or high-modulus sealants that suit tighter, more static joints. Its non-slumping characteristic further differentiates it from self-levelling variants, which are designed for horizontal joints only; this product handles both vertical and horizontal applications without sagging during cure. The graph context available for this product does not name specific sibling sealants within the Selleys Pro Trade line, so no direct comparisons to named siblings can be drawn here.

From a use-case perspective, anyone applying Pro Trade Joint Sealant LM will typically need a small set of complementary products. The product's own technical guidance calls for surfaces to be clean, dry, and free of grease and loose material before application, pointing to a need for surface preparation products such as cleaners or degreasers. Because the sealant is supplied in both cartridge and sausage formats, a compatible dispensing tool — a standard caulking gun for cartridges, or a sausage gun for the foil pack format — is an essential purchase alongside it. After curing, the sealant accepts water-based topcoats directly, though oil-based paints require a primer, which may bring a suitable primer into the shopping basket for painted-finish applications.