

CHEVALINE SUPERFLEXX

Elastomeric gap filler and lap sealer

February 2024

PURPOSE AND AREAS OF USE:

A general purpose flexible gap/crack sealant and lap sealer for use over most exterior surface materials in conjunction with Chevaline Architectural Coating Systems.

PRODUCT:

A high-solids waterborne acrylic elastomeric sealant which can be applied by knife, trowel or sealant gun when used as a sealant, or airless spray or trowel when used as a lap sealer.

PROCESS COMPATIBILITY:

Superflexx is normally used in preparatory sealing work for external surfaces to which Chevaline finishes are to be applied. The following coatings can be applied directly to Superflexx: Covertexx, Coverall, Flexx, Colourglaze.

COLOURS:

White. For special applications, Superflexx can be supplied in other colours, subject to minimum order and shade restrictions.

STANDARD PACKS:

20 litre metal open-head pails with plastic head liner.
2 litre plastic pot.

PHYSICAL PROPERTIES:

Liquid Material	
Solids (% by volume)	59%
Solids (% by weight)	68%
Specific Gravity	1.29
Flash Point	None - water-based system.
Shelf Life	Two years in original sealed containers.

Applied Material	
Extension capability - As a gap/crack sealant	The operating tolerance is $\pm 10\%$ of the normal gap/crack width at 21°C.
Extension capability - As a lap sealing film	The maximum extension of a film at nominal thickness of 0.5 mm is 300% at 21°C.
Durability	When overcoated with a compatible Chevaline product the excellent flexibility and elasticity properties will be maintained in excess of the life of the topcoat.
Adhesion	Excellent to most common building materials including concrete masonry, concrete, brickwork, asbestos cement sheeting, timber, and primed metals. Porous surfaces may require a primer.
Chemical resistance	Resistant to all normal environmental pollutants. However, do not use as an uncoated chemical resistant sealant.
Fungus resistance	Chevaline Superflexx contains a highly effective mould-resistant additive which does not contain toxic metals or phenols.

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SURFACE PREPARATION:

General	All surfaces to which Superflexx is to be applied must be clean, dry and free of extraneous loose matter, oil, grease, laitence etc. Mosskill if necessary, and wire brush and scarify any surfaces which appear to have a loose or friable surface to ensure that a sound bonding surface is exposed. High-pressure clean existing oxidised metal surfaces to remove any adherent contamination.
New metal	When Superflexx is used on new metal surfaces, these must be degreased and primed (see below).
Existing cracks	In concrete, plaster etc (other than fine hair cracks) should always be opened out with a 2-3 mm abrasive blade in an angle grinder, or similar tool, to a depth of approximately 5 mm. This serves the dual purpose of removing any organic matter in the crack, and providing a sound bonding surface.

PRIMING:

Timber surfaces	Generally not needed.
Concrete, masonry, plaster	Not needed on sound surfaces. On porous or suspect surfaces, prime with 50/50 Coverall/water.
New metal	Use an appropriate anti-corrosive or etch primer. Zincure is recommended for use on corroded galvanised steel.

APPLICATION METHOD:

Superflexx is a paste-like material and can be applied by a variety of methods depending on the particular end-use.

Lap sealing	Brush (small area) or airless spray. In the latter case use a heavy-duty set-up, preferable with reversible tip on large size nozzle, and without gun filter.
Joint filling	Use spatula, 50 mm paint scraper or putty knife. For large scale use, transfer material to straight side 2-3 litre plug-lid can and fill cartridges to use from a standard sealant gun. Note that when filling deep, wide cracks (more than 6 mm wide and deep) there may be some shrink-back on through curing, resulting in a concave seal surface. If flush filling is essential, apply a surface filling layer of Superflexx by trowel or scraper.
Fixing-hole filling	A small margin trowel or putty knife is the best tool to use for filling c/s screw or nail holes. Use in the same way as conventional putty.
Sealing checked timber	Depending on the extent of work, use a putty knife or paint scraper to apply, force into the surface and smooth off. Ensure the surface is left smooth at time of application as elastic Superflexx is not easily sanded back.

APPLICATION PROPERTIES:

SPREADING RATE:

As a lap sealer	1.5-2 litres/sqm (10-13.5 sqm/pail) depending on lap dimensions and anticipated movement. This represents approximately 200-260 metres run of 50 mm wide lap seal.
Joint filling	In normal usage, allowing for waste and joint or crack irregularity, a 2 litre pot will fill approximately 100 metres run of 3 mm x 3 mm joint.

DRY TIME :

Touch dry	1 1/2-2 hours
Full through dry	3-6 days (depending on material depth)

DO NOT APPLY in air temperatures less than 8°C or when surface temperature is less than 5°C. When deep cracks or joints are filled, through dry time will be extended, particularly under cool conditions, although the material may be overcoated with compatible Chevaline coatings in the time scale given on page 3 of this TDS.

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RECOAT TIME:

Waterborne Chevaline coatings	8-24 hours after application.
Solventborne Chevaline coatings	3-5 days after application, depending on depth of Superflexx application and atmospheric conditions.

Note: that Superflexx left uncoated has very good exterior durability and may be left for any time up to three months before topcoating, provided that any dirt or dust is hosed off prior to overcoating. Normal drying conditions for times given above are 18-23°C and 60-70% R.H.

THINNING/CLEANING UP:

Use clean water for both. Clean equipment immediately after use. Fully dried material is difficult to remove, especially from spray equipment. If it is felt that thinning is needed for a particular end-use then Chevaline Flexx should be used instead.

SPECIFICATION NOTES:

Chevaline Superflexx is a gap/lap sealer and as such is a material used in preparation and upgrading of surfaces for a number of Chevaline coating systems. In addition it is used in detailing work for joint treatment for these processes. It is therefore unlikely that a separate specification involving the use of Chevaline Superflexx on its on is likely to be written.

Chevaline Superflexx does have a number of end-uses associated with both new construction and remedial work. So that designers/specifiers are aware of these uses, we have listed them below so that where appropriate, mention can be made on drawings, specifications and schedules.

1. Lap-sealing and fastener sealing on profiled metal roofing and siding prior to over coating.
2. Flush-sealing of cracked or split timber and plywood face-veneer prior to over coating.
3. Flush-filling of nail and screw holes prior to over coating.
4. Elastic sealer/priming of cove and upstand fillets prior to application of Chevaline Dexx roofing membrane.
5. Flush filling of "non-moving" joints in plywood and asbestos cement siding or decking prior to over coating or tape-bandage treatment.
6. Elastic flush-filling of chased-out "non-moving" cracks in concrete or plaster prior to remedial waterproofing.

In all uses, the high solids and elastic nature of Chevaline Superflexx ensures that a flexible adherent filler/sealer is applied to maintain the integrity of the surface. If a general specification statement is required, we would recommend the following clause, used in conjunction with the appropriate Process Specification:- All preparatory work and detailing shall include the use of Chevaline Superflexx to provide an elastic filler/sealer where appropriate for fasteners, joints and surface defects.

Note: Chevaline Superflexx must not be specified for use in designed movement joints in new or old structures. Although it is an elastomeric type of material with considerable flexibility, it is not a substitute for high-performance elastomeric sealants.

MAINTENANCE:

As this is a preparatory material, no specific requirements exist. Refer to Maintenance in appropriate Topcoat Know How.

WARRANTIES:

No warranty is normally offered on the application of Chevaline Superflexx as an individual material. Since it is used as a preparatory/detailing product in conjunction with various Chevaline coating processes it's application is generally covered by the contractors Warranty for the particular coating process used.

HEALTH AND SAFETY:

Chevaline Superflexx is a waterborne material and contains no mammalian-toxic substances. It is non flammable and requires no special storage conditions other than protection from frost and heat greater than 40°C for extended periods.

Wear barrier cream when handling Chevaline Superflexx and protective gloves, mask and safety spectacles or goggles when applying by airless spray.

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WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	New Zealand
Legal and trading name of manufacturer	Equus Industries Ltd.
Manufacturer address for service	4 Sheffield Street, Blenheim 7274
Manufacturer website	www.equus.nz
Manufacturer email	info@equus.nz
Manufacturer phone number	03 578 0214
Manufacturer NZBN	9429032000306