

Chevaline Superflexx

Elastomeric gap filler & lap sealer

Purpose & 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 water-borne 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 | Covercryl |
| Arcutexx | Flexx | Colourglaze |

Colour:

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

Standard Pack

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

Physical Properties:

Liquid Material:

| | |
|-------------------|---|
| Volume solids: | 59% |
| Weight solids: | 68% |
| Specific gravity: | 1.29 |
| Flash point: | None - waterborne system |
| Shelf life: | Two years in original sealed containers |

Applied Material:

| | |
|-----------------------|---|
| Extension Capability: | <u>As a gap/crack sealant:</u> The operating tolerance is $\pm 10\%$ of the normal gap/crack width at 21°C. |
| Extension Capability: | <u>As a lap sealing film:</u> The maximum extension of a film at nominal thickness of 0.5mm is 300% at 21°C. |
| Durability: | When over-coated 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 Flexx** contains a highly effective mould-resistant additive which does not contain toxic metals or phenols.

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 2-3mm abrasive blade in an angle grinder, or similar tool, to a depth of approximately 5mm. 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: No 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, 50mm 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 6mm 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 per square metre (10-13.5 sqm/pail) depending on lap dimensions and anticipated movement. This represents approximately 200-260 metres run of 50mm 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 3mm x 3mm joint.

Dry time:

Touch dry: 1½ - 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 over-coated with compatible **Chevaline** coatings in the time scale given below:

Recoat Time:

1. Waterborne **Chevaline** coatings - 8-24 hours after application.
2. 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 top-coating, provided that any dirt or dust is hosed off prior to over-coating.

Normal drying conditions for times given above are 18-23°C and 60-70% R.H.

Thinning/Clean 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 **Superflexx** on its own is likely to be written.

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 **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 **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: **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 Top-coat Know How.

Warranties:

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

Health & Safety:

Chevaline Superflexx is a water-borne 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 **Superflexx** and protective gloves, mask and safety spectacles or goggles when applying by airless spray.

Equus Industries Ltd
PO Box 601
Blenheim
Phone: 03 578 0214 Fax 03 578 0919
Email: admin@equus.co.nz
Web: www.equus.co.nz