

Chevacryl Admix

Purpose & Areas Of Use:

A formulated **Admix** for cement mortars, plasters and slurries which takes the place of normal gauging water or water/plasticiser mixes to provide enhanced adhesion, flexural strength, chemical, abrasion and water-resistant properties for the mixes in which it is used.

Particularly suitable for use in areas where some degree of enhanced performance is required, particularly for industrial floors, both as a patch compound and screed, for tile bedding mortars, and as a concrete and plaster patching compound.

Product:

A modified acrylic polymer emulsion specifically designed with easy working characteristics. Supplied ready-for-use as a standard material for normal patching/screeding applications, but specific grades can be produced for special uses where cement/aggregate ratios and grading may vary from the norm, in terms of abrasion resistance, flexural strength or mortar composition.

Process Compatibility:

All waterborne **Chevaline** coatings can be applied over surfaces in which **Chevacryl Admix** has been used. Where **Traxx** or solvent-borne **Chevaline** products may be used please check with us first.

Colour:

As supplied - opaque white emulsion.

Standard Pack:

20 litre plastic pails or jerricans. 200 litre lined steel drums.

Physical Properties:

Liquid Material :

Solids (% by volume): 30
 Specific Gravity: 1.035
 Flash Point: None - waterborne system.
 Shelf Life: 3 years in original sealed pails stored in cool dry conditions.

Formulated Cement Mortar:

Chevacryl Admix: Cement 0.48:1.0 by weight
 Tensile strength 4.2 MPa (1.6 MPa)
 Compressive strength 39 MPa (16.5MPa)
 Flexural strength 10.8 MPa (4.2 MPa)
 Shear bond adhesion >4.4 MPa (0.3 MPa)
 Impact strength 1.8 Kg-m (0.7 Kg-m)
 Abrasion resistance 1.2% weight loss (23%)

Note:

1. Figures in brackets relate to unmodified cement mortar.
2. All tests done after 28 days air cure.

Surface Preparation:

Old Concrete/Plaster:

Patching: Hack back to sound concrete/plaster ensuring that a straight or undercut edge at least 8mm deep is achieved. Remove any contaminated concrete or plaster which may inhibit adhesion.
Screeding: Caustic wash floor surfaces to remove all contamination and expose sound clean concrete. If necessary, scabble or flame clean surface.

New Cement Surfaces:

Patching: Ensure all unsound material is hacked free.
Screeding: Acid etch and rinse clear.
Note: Surfaces should be clean and water-free before mortar/plaster application. Dampness can be tolerated without ill effect.
 Timber & Metal: Ensure surface is dry and free of contamination.

Application Method:

Slurry Coat

Normally a slurry-bonding technique is employed, with slurry mixed as:

Cement	1 volume
Mortar Sand	3 volumes
Chevacryl Admix	0.6 vol.

Water as needed to give a brushing slurry.

The slurry should be well brushed into the surface with a stiff brush and allowed to "set-up" (4 hours+) before the mortar or screed is applied.

Mortar/Plaster:

Mix ratios will vary depending on end-use and sand-type. A general purpose mix is:

Cement	1 volume
Mortar sand	3 volumes
Chevacryl Admix	0.6 vol.
Water	Only if absolutely necessary.

The dry material should be premixed and the Admix incorporated in a plaster mix or by hand-mixing. A "wet" mix is to be avoided. The mixing ratio given will provide a dry mix which will screed and "pack" well. Leveling should be carried out with as little working of the surface as possible to avoid bleed of the **Admix** to the surface.



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Curing: Floor screeds should be wet-cured for 72 hours or alternatively have a coat of **Chevaline Clearseal** applied as a protective curing membrane 24 hours after laying.

Application Properties:

Dry time: A **Chevacryl Admix** mortar will through-harden a little more slowly than a conventional mortar during the first few hours after laying. Within 6 hours of application, dry and cure times become similar, but strength gain is greater long-term in all areas with the **Admix** mortar.

Clean Up: All equipment should be cleaned down in fresh water immediately after use. Dry **Chevacryl Admix** mortars and slurries adhere tenaciously.

Health And Safety:

Chevacryl Admix is a non-flammable emulsion and is non-toxic, and safe to handle. The normal precautions for skin-care taken when handling cement-base materials should be observed.

Transport Classification:

Non-hazardous - not restricted.

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