

Heavy duty polyurethane screed and mortar for cold stores

Product Description

TAL URAFLOOR CS is a heavy duty polyurethane based floor screed and mortar designed to provide excellent resistance to abrasion, chemical attack and thermal shock and that been specifically developed for use in cold stores and freezer rooms.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- High durability
- Resistant to abrasion, impact and chemical attack
- Seamless and hygienic finish
- Contains a unique antimicrobial additive
- Excellent chemical resistance
- Resistant to thermal shock
- Low odour during installation

Uses

TAL URAFLOOR CS is used in heavy duty applications in cold store, freezer and other sub zero applications.

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Laboratory Test Data

Property	Typical Results
Compressive strength (BS 6319 Part 2)	70 MPa
Tensile strength (BS 2782:320D)	14 MPa
Flexural strength (ASTM D790-84a)	20 MPa
Slant shear bond strength (BS 6319)	51 MPa
Impact resistance (BS 8204)	No indentation
RRL slip resistance	
Wet	60
Dry	80

Application Properties

Service temperature	-45 to 105°C
Application temperature (mixed product)	5 to 30°C
Recommended thickness	9 to 12mm
Pot life	60 min at 20°C
Light traffic	16h at 20°C
Heavy duty traffic	48h at 20°C
Full cure	5d at 20°C

Note: for less extreme applications the product can be applied at 4mm to 9mm thick. Please contact TAL for more information.

Volatile Organic Content

VOC = <50 g/L

Chemical Resistance

Excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents and all food products and cleaning chemicals used in the food industry.

Colours

Natural, grey and red

Most RAL colours can be supplied at no extra charge.

Theoretical Coverage

9 L/m² at 9mm thick

12 L/m² at 12mm thick

An appropriate wastage factor must be applied to the above to take account of product wastage and surface condition.

Packaging

TAL URAFLOOR CS: 30kg kits

TAL SF PRIMER: 5 & 15 liter kits

TAL MT PRIMER: 5 & 15 liter kits

TAL BUGFILL: 5 kg kits

TAL ANTISLIP GRAINS: 25 kg bags

Shelf Life

12 months when stored between 5 to 30°C under shade in dry conditions.

Application Guidelines

TAL URAFLOOR CS should be applied by experienced coating crews. TAL provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface Preparation

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by captive blast light grit blasting or high pressure water blasting to produce an exposed aggregate surface with a deep etch. Any bug holes should be filled with TAL BUGFILL.

Priming

The prepared surface should be primed with TAL SF PRIMER or TAL MT PRIMER. The contents of the hardener component should be emptied into the contents of the base component and stirred with a spatula until the product appears uniform. The mixed primer should then be applied to the prepared substrate with a stiff brush or roller at a wet film thickness of 100 to 150 microns. Do not over apply or allow puddles of primer to form. If the primer is absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free.

Immediately after application of the primer broadcast TAL ANTISLIP GRAIN (M) on the surface of the primer at a rate of approximately 200 to 250g/m². Application of TAL URAFLOOR CS can commence any time within 24 hours of the primed surface being touch dry.

Mixing

Mixing should only be carried out using a forced action mixer such as a Mixal or Cretangle. Small areas can be mixed using a slow speed drill and approved mixing paddle. Pour the base component into the clean mixing vessel and, while stirring slowly, add the hardener component and mix for 1 minute. Once the base and hardener has been mixed, add the filler slowly and mix for a further 3 minutes.

Application

To control level and surface finish the use of a screed box or screed bars fixed to the required thickness is highly recommended. Place and level the material then carry out initial finishing with a wooden trowel to create an open texture that will allow air release. Once this is done then compact using the same trowel and finish using a steel trowel to tightly close the surface. Do not use solvent as a troweling aid as it will destroy the resin structure. TAL TROWELEASY is recommended as a finishing aid. It is applied to the steel trowel to assist with finishing to produce a tight dense uniform finish free from trowel burn.

Sealing

If the finishing has been carried out to a high standard then a sealer is not normally required. If the surface is required to be sealed then seal using the resin (base and hardener mixed together without filler) component of TAL URAFLOOR CS. Apply at a coverage of 10 to 15m²/L.

Cleaning

Clean with TAL SOLVENT S before the product has cured.

Limitations

Failure to compact the product correctly may result in air blisters appearing on the surface. For area subject to steam cleaning minimum thickness should be 10mm. Maximum moisture content of substrate 10%. Do not be apply within 3°C of the dew point or if it is within 5°C of the dew point and dropping.

