

STZ Prefill is a component of allnex construction resin floor systems.

Generally allnex STZ prefill is specified where a rapid repair of an unsatisfactory surface is required. Ideally the prefill chosen can be overlaid within 24 hours which is useful when reducing project timeframes.

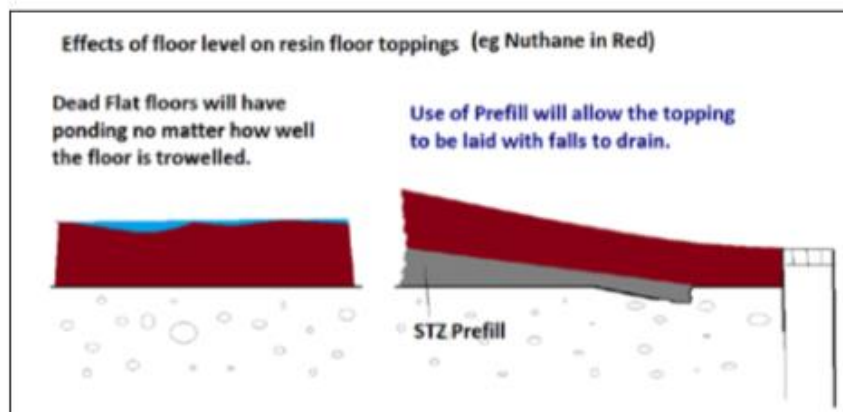
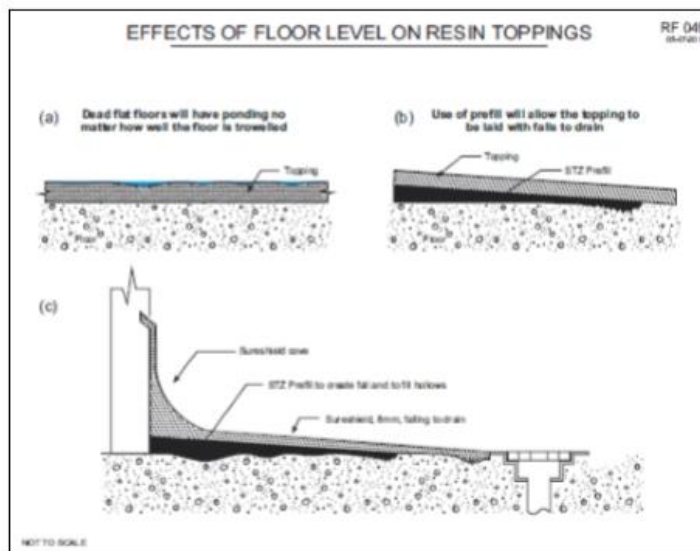
allnex prefill defines a number of aggregate filled resin system used for;

- filling deep holes and depressions,
- to produce sloped falls in flat floors,
- to flatten an undulating floor

prior to the installation of a allnex floor topping system.

STZ Prefill is available in a number of systems which must be compatible with the designed allnex finish system.

- Polyester resin
- Epoxy Resin
- Engineered Cement Screed



Prefill Overview			
Material	Prefill Type and Overlay Time #1	Prefill Type and Overlay Time #2	Prefill type and Overlay Time #3
Sureshield	Polyester Prefill Resin - 24hrs	Engineered Bagged Screed allnex screed 20+ - 28days	Engineered Concrete 28 days
Decorative Terrazzite	Polyester Prefill Resin - 24hrs	Engineered Bagged Screed allnex screed 20+ - 28days	Engineered Concrete 28 days
Architectural Terrazzite	Polyester Prefill Resin - 24hrs	Engineered Bagged Screed allnex screed 20+ - 28days	Engineered Concrete 28 days
Supascreed	Epoxy Prefill Resin - 24hrs	Engineered Bagged Screed allnex screed 20+ - 7 days	Engineered Concrete +7 days
Epoxy Traxite	Epoxy Prefill Resin - 24hrs	Engineered Bagged Screed allnex screed 20+ - 7 days	Engineered Concrete +7 days
Surechem VE	Polyester Prefill Resin - 24hrs	Engineered Bagged Screed allnex screed 20+ - 28days	Engineered Concrete 28 days
Surecote 200/500/500AR	Epoxy Prefill Resin - 24hrs	Engineered Bagged Screed allnex Screed 20+ - 7 days	Engineered Concrete 7+ days
Nuthane	Epoxy Prefill Resin - 24hrs	Engineered Bagged Screed allnex screed 20+ - 24 hrs	Engineered Concrete 2 days

Suggested Prefill Formulations		
Polyester Prefill Resin 10mm Rounded Pebble Silica Sand	225 kgs 1093 kgs 652 kgs	Approx. 0.8 m ³
Epoxy Prefill (Resin and Hardener) 10mm Rounded Pebble Silica Sand	180 kgs 1120 kgs 700 kgs	Approx. 1m ³
allnex screed 20+ Engineered Concrete Screed	A well formulated, low water/cement ratio concrete. This may be modified with Araplex SBR to increase adhesion See Technical data	

How to specify

STZ Prefill shall be used to repair damaged areas of concrete substrate, create falls to drains or to make up floor heights.

The STZ specification only needs to identify the floor topping and timeframe requirements, allnex and its applicators can determine the appropriate resin / binder system for the appropriate finish.

Consult the allnex technical for recommendations if required.

Film Build

allnex prefill can be installed to almost any thickness and will not delaminate or become drummy in thin applications.

Preparation:

Prior to the commencement of the contract it is the contractor's responsibility to inspect all areas to receive the prefill and report any unsatisfactory conditions in writing to the main contractor or client for necessary correction.

Ensure concrete joints and expansion joints are controlled and managed and do not lay over them.

Prepare the sub-base for maximum adhesion by grinding or blasting to a minimum CSP 6

Priming

The installer shall ensure that the prefill is fully bonded to the sub – concrete.

The installer is to ensure the appropriate primer to suit the screed is used,

Consult the allnex technical team where required.

allnex do not recommend applying prefill over a dry primer, it is recorded that a better bond is achieved when the screed is applied into a tacky primer and becomes monolithic.

Application

Use only selected, graded, dust free, clean, dry aggregates.

Add the selected aggregates to the premixed resin system and mechanically mix until homogeneous, trowel apply making sure excellent compaction is achieved ensuring no air holes or aeration and a sound solid screed is obtained.

Note:

It is important that prefill mixes are compact – highly filled, open, honeycombed or a porous structured prefill will be unacceptable for follow on resin toppings.

Falls & Levels

Normally for new work falls are laid in the concrete substrate, however, in refurbishment projects the installation of new or additional drainage or the removal of drainage can result in the existing falls being incorrect, the prefill is used to create falls to ensure the water or spilt liquid can free run to the drainage without ponding.

Where falls are to be created using prefill, we recommend a minimum fall rate of 1:50 to provide free-draining of liquids. Falls less than to 1:100 may also be suitable provided some ponding is acceptable and any standing liquid can be cleaned and/or squeegeed away.

See the chart below for fall calculations and thicknesses required at the perimeter walls.

Fall Set Up

Install accurate profiles, pinned floor gauges or screeds lines to ensure the prefill can be accurately installed. This may need to be done in conjunction with a laser level or other suitable device.

Once existing levels and proposed new levels have been accurately defined and set up install the prefill.

Prefill is to be accurately installed using screed bars and/or trowels to achieve the maximum surface tolerances of +/- 3mm over a 3m grid.

During the installation it is good practice for the installer to constantly check his work for accuracy.

Note

When using cement prefill systems:

Ensure good curing conditions are available, no direct sunlight and only low volume airflow etc.

Follow on Finishes

The prefill will require some surface preparation prior to the final flooring installation, usually mechanical grinding and de-nibbing.

For further advice or information do not hesitate to contact the allnex technical team.

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Fall calculation Sheet

Falls of 1:50 will have no ponding water and will comply with MPI requirements in processing facilities (no splash onto foodstuffs from ponding water on floor)

Falls of 1:100 will flow to waste but are likely to still have ponding and will need to be squeegeed off.

This Chart shows the height of the prefill at the perimeter walls to achieve those falls.

Distance(metres)	1:50 Height (mm)	1:75 Height (mm)	1:100 Height (mm)
1	20.00	13.33	10.00
1.5	30.00	20.00	15.00
2	40.00	26.66	20.00
2.5	50.00	33.33	25.00
3	60.00	40.00	30.00
3.5	70.00	46.66	35.00
4	80.00	53.33	40.00
4.5	90.00	60.00	45.00
5	100.00	66.66	50.00
5.5	110.00	73.33	55.00
6	120.00	80.00	60.00
6.5	130.00	86.66	65.00
7	140.00	93.33	70.00
7.5	150.00	100.00	75.00
8	160.00	106.66	80.00
8.5	170.00	113.33	85.00
9	180.00	120.00	90.00
9.5	190.00	126.66	95.00
10	200.00	133.33	100.00
10.5	210.00	140.00	105.00
11	220.00	146.66	110.00
11.5	230.00	153.33	115.00
12	240.00	160.00	120.00
12.5	250.00	166.66	125.00
13	260.00	173.33	130.00
13.5	270.00	180.00	135.00
14	280.00	186.66	140.00
14.5	290.00	193.33	145.00
15	300.00	200.00	150.00
15.5	310.00	206.66	155.00
16	320.00	213.33	160.00
16.5	330.00	220.00	165.00
17	340.00	226.66	170.00
17.5	350.00	233.33	175.00
18	360.00	240.00	180.00
18.5	370.00	246.66	185.00
19	380.00	253.33	190.00
19.5	390.00	260.00	195.00
20	400.00	266.66	200.00