

Technical Data Sheet

Screed 20⁺ Multi-Purpose Levelling Compound



DESCRIPTION:

Screed 20⁺ is part of allnex's screed range which gives a ready-to-use compound simply by mixing with water. It exhibits excellent trowelling with good hardening and drying properties. Single component, normal curing, cement-based screed.

TYPICAL FEATURES | BENEFITS:

- For bulk filling, creating slopes and falls and filling holes on floors of concrete.
- It may also be used on particle board and fibre board floor for a thickness of 10-100mm.
- May also be used as a filler on concrete walls.
- It may be used as finished surface but as it is a filling material with coarse aggregates.
- It may require final smoothing with Pourite SLC or Flawfix.

PRODUCT PROPERTIES & PERFORMANCE DATA:

Properties	Values	
Pot-Life:	+20°C ~65%RH	Approximately 20 - 30 minutes
Can be walked on:	+20°C ~65%RH	Approximately 12 hours @ 20mm
May be Covered after:	+20°C ~65%RH	Approximately >48 hours @ 20mm <i>Depending on when the relative humidity is under the value for the covering. Drying time is dependent on ambient temperature, the screed's thickness, the surface's moisture content and temperature. *Use a moisture meter to check dryness in critical applications.</i>
Application Temperature:	~ Air	+10°C - +25°C
Adhesion Properties to correctly prepared surface:	Excellent	
Binder:	Special Cement	
Ballast:	Natural sand, max 0.25mm	
Coverage:	Screed Powder 20kg Water 1.8 litres When mixed, it produces 11lts of wet volume – (90 x 20kg bags per cubic metre). E.g. Coverage: = 0.32m ² @ 30mm thick. 300 x 20 kg bags will cover 100m ² @ 30mm thick 200 x 20 kg bags will cover 100m ² @ 20mm thick 100 x 20 kg bags will cover 100m ² @ 10mm thick 50 x 20 kg bags will cover 100m ² @ 5mm thick	
Recommended Thickness:	10 – 100mm approx.	
Appearance:	Grey when dry	
SG/Litre: <i>(When Mixed)</i>	2kg	
Clean Up:	Warm Soapy Water	
Dangerous Good Class:	Not Regulated	
Packaging:	20kg Plastic lined paper bags	
Material Storage:	In bagged form this product must be stored in a dry area, off the floor on a timber pallet or timber dunnage and it must be protected from the weather and from mechanical damage. Rotate the stock to ensure that the oldest material is used first.	
Shelf life:	12 months from date of manufacture. <i>(unopened and stored in dry internal conditions)</i>	

RECOMMENDED USES:

- Screed 20⁺ for fills of 10 - 100mm approx.
- Tile screed slope forming material.
- Suitable for bulk fills, slopes, ramps
- Screed 20⁺ forms the "STZ Prefill" cement screed option for use under Nuthane SB Polyurethane topping and /or Supascreed epoxy floor topping. It is used if falls are not present or have been incorrectly formed in the concrete.
- Multi-purpose levelling and finishing compound
- Sloping material over or under membranes.
- Interior | exterior* *Refer: allnex Construction Products*

NOT RECOMMENDED:

- Application below +10°C air temperature.
- Application to incorrectly prepared surfaces.

HEALTH & SAFETY: *Refer: safety data sheets (SDS).*

- Wear gloves wherever possible.
- Wash hands with warm, soapy water after any skin contact.
- Re-seal all containers tightly.

SURFACE PREPARATION:

The surface should be cleaned of waste, dust, dirt, oil, fat, wax, paint, old adhesive etc. Any laitance should be removed. Diamond grind the concrete surface as necessary. This is normally a good cautionary practice. Cracks should be excavated with any loose or crumbly material being removed. The floor should be thoroughly swept and vacuumed.

Note
If in doubt about potential wet or damp floors, seal with Aquakem (Aquaguard 101) before proceeding. If Aquakem is applied, prime the cured Aquakem with Neoprime before proceeding with the application of Screed 20+. . (Refer: Aquakem Technical Literature)

When used under resin floor toppings

Concrete requires surface preparation to CSP 7-8 to ensure maximum adhesion of the Screed 20+. *Also:- Refer: Priming (Critical Applications) for use in this situation.*

PRIMING:

Priming surfaces will improve adhesion, working time and handling.

Porous Substrates

Prime Porous concrete, fibre board and particle board with *Duraseal primer*. Priming surfaces will improve adhesion, working time and handling.

Non Porous Substrates

Prime Smooth, impervious surfaces such as Old Tiles, Terrazzo or Resin Floors with *Neoprime*

Critical Applications

For critical applications (for use under a Resin Floor Topping), a tie-coat with epoxy (Supascreed or K80) is highly recommended. When using a primer coat for critical applications the primer must be gritted.

MIXING METHOD:

Mix Ratio

Product	Values
Screed 20+ Powder	20kg
Water	1.8 litres

Screed 20+ is quite tolerant of water level additions and the following is a guide; however, the water added has a very strong effect on the trowelability of Screed 20+.

Screed 20+

- *1.8 litres water gives a thick mortar which can be used to form ramps, coves, etc.*
- *1.8 litres gives a thicker mix.*
- *1.8 litres would be the nominal water level.*
- *2.0 litres is a wetter mix.*

Use an accurate graduated measuring jug.
Mixing may be carried out by way of: Electric Mixer & paddle | Hippo Mixer | Concrete Mixer
Extra water will reduce strength and increase the chance of shrinkage cracking.
Power mix vigorously to a lump-free compound.
The compound should be used within 20-30 minutes at 20°C.
Higher temperatures reduce, and lower temperatures increase the working time.
Screed 20+ mixes readily with water and is generally lump free.
Do not apply if too much water has been accidentally added; excess water displays as a whitish dried surface.

Note
For better durability, adhesion, wear and greater elasticity, mix 50/50 FLC emulsion and water prior to adding to the Screed 20+

APPLICATION METHOD:

Smoothing:

Apply using a steel trowel or float to achieve the required finish. Ensure Screed 20+ is protected from full sun and wind to ensure good hydration and curing.

Screed bars may be used to obtain heights | falls etc.

It may be used as finished surface but as it is a filling material with coarse aggregates. It may require final smoothing with Pourite SLC or Flawfix.

Note

DO NOT apply Pourite SLC, Pourite Max, Flawfix or any other Cementitious material over the Screed 20+ if a resin topping is to be applied.

If a resin topping is to be applied and a draining requirement exists, then a fall of 1 in 50 is required.

Contact allnex Construction Products for advice if uncertain about use.

CAUTION:

Screed 20+ be mixed within the specified parameters of this document. Only these will produce a hard, non-softening product.

Adding more water (with the aim of making the product “easier to use”) will not work and will only result in making the product softer.

Only the stated mix ratios will work and exhibit the stated performance data.

CURING TIMES:

Screed 20+ is hard dry overnight.

Essentially dry in 48hrs in good conditions @ 20mm.

Use a moisture meter to check dry in critical applications.

FLOOR LEVELLING COMPOUND RANGE:

Patch Repairs

Product	Application Thickness	Mix Additive	Application Area	Use
Supaset	1 - 100mm in single application	Water	Interior	Rapid Set
Hardfast (<i>White Patch</i>)	0 -20mm in a single application	Water	Interior	Divots Isolated patching only

Bulk Fill

Screed 20 +	5 - 100mm in single application	Water	Interior	Heavy Duty Bulk Fills - Ramps
Supaset	1 - 100mm in single application	Water	Interior	Rapid Set Shower Falls

Two-Part Screed

Durabond Superfine	0 - 5mm in a single application	Latex Emulsion	Interior	General Purpose - Fine Finish
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Self-Levelling

Pourite SLC	1.5 - 10mm in single application	Water	Interior	Self-Levelling Installations
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Fine Feather Finish

Flawfix	Very fine finishing	Water	Interior	Fine Smoothing of floors
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