

DESCRIPTION

CFS 30 has been specially formulated to produce fast setting screeds for internal and external locations including areas exposed to permanent wetness. CFS 30 can be used to prepare bonded, unbonded and floating screed. A CFS-30 screed can be walked on after approximately 1 day and can be tiled after approximately 3 days

FEATURES & BENEFITS

- Walkable after approx. 1 day and can be tiled after approx. 3 days
- Different mixing ratios possible
- Can be pumped for fast application
- Suitable for areas exposed to permanent wetness
- For bonded, unbonded and floating screeds

TYPICAL PROPERTIES

Material base	Special cement with admixtures
Components	1 part
Bulk density	Approx. 1.1 g/cm ³
Appearance	Powder
Color	Grey
BRE test (impact resistance/soundness)	Category A

METHOD OF APPLICATION

MIX PROPORTIONS

Consumption (powder)	
Mixing ratio = 1:6 (parts / weight)	approx. 2.8 kg/m ² of CFS-30 per cm layer thickness
Mixing ratio = 1:7 (parts / weight)	approx. 2.4 kg/m ² of CFS-30 per cm layer thickness
Mixing ratio = 1:8 (parts / weight)	approx. 2.1 kg/m ² of CFS-30 per cm layer thickness

Quantity of gauging water **

Powder/Aggregate ratio = 1:6 (parts / weight) approx. 4 to 4.5 liter of water for 50 kg of CFS-30

Powder/Aggregate ratio = 1:7 (parts / weight) approx. 4 to 4.5 liter of water for 50 kg of CFS-30

Powder/Aggregate ratio = 1:8 (parts / weight) approx. 4 to 4.5 liter of water for 50 kg of CFS-30

Layer thickness (depending on aggregate)

- minimum ≥ 15 mm for bonded screeds;

Recommended grade of aggregate (grading curve with low portion of fines)

	Layer thickness
Crushed sand	approx. 0 - 5 mm
Crushed aggregate size	approx. 0 -10 mm

Working temperature +5°C to +30°C

Mixing technique Force action mixer
(free fall tumble mixer must not be used!)

Conveyor technique pneumatic

Consistency of mortar stiff-plastic

Working time * approx. 60 minutes

Curing time *

- foot traffic after approx. 1 day

- can be tiled after approx. 3 days (with ceramic and/or natural stone) based on screed layer thickness

Service temperature -30°C to +80°C

Frost resistance yes

Resistance to permanent wetness yes

*Times/values are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed approx. 50%rh.

** Quantity of gauging water depends on sand type (shape) used on site and can be adjusted according to recommended water range. Sand of low level of fines is preferable.

*** A standardized sand sieve line based on local sand types has been used for testing. Aggregate size: (0-5) mm

PREPARATION OF SUBSTRATE FOR BONDED SCREEDS

The substrate must be clean, sound, free from grease, old paint and other residues. Remove heavy contamination mechanically, residues of oil and wax.

Pre-wet the prepared substrate at a stage, keep damp, in case of bonding screed apply the bonding agent and CFS 30 wet on wet.

APPLICATION PROCEDURE

Kindly contact IKAN technical team for recommended mix design to be used on site based on screed requirement

MIXING

- Add pre-approved aggregates in a force action concrete mixer according to the desired mixing ratio. Add CFS-30 and mix for 1 minute.
- Add water while mixer is running (quantity of water depends on the moisture content, type, size and shape of the used aggregates) and mix for approx. 3-5 minutes. But avoid water overdose! The consistency of the mortar should be stiff-plastic & easy to trowel.

APPLICATION

Spread the mortar with a shovel, trowel or surface scraper, compact, scrape off with a levelling board or straight edge, rub down with a wooden board and smooth if necessary.

Protect newly applied screed from too rapid dehydration (e.g. plastic sheet up to 7 days) and sprinkle water after 2nd day



HEALTH & SAFETY PRECAUTIONS

CFS 30 contains cement. Contact with moisture or gauging water sets off an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes (e.g. the eyes). Risk of serious damage to eyes, therefore, avoid contact with eyes and prolonged contact with skin. In case of contact with eyes immediately rinse with plenty of water and seek prompt medical attention. In case of contact with skin change contaminated clothing at once and immediately wash skin with plenty of soap and water. Wear suitable protective gloves (e.g. cotton gloves soaked in nitrile) and safety goggles/face protection. If ingested seek prompt medical attention and show packaging or this product data sheet. Keep out of reach of children.