

ISO SUPER FLEX 1054

Product Data Sheet

Description:

Iso super flex is a specially formulated water proof tile adhesive for thin or thick bed fixing of ceramic tiles and stones for interior or exterior cladding. Iso super flex is ideal for use in areas which are in permanently submerged and high risk conditions.

Uses:

- Fixing ceramic tiles and stones in :
- Swimming pools\water tanks\fountains.
 - Bathrooms.
 - Shower rooms.
 - Industrial kitchens.
 - For tile on tile application.
 - Decorative external claddings.
 - Where vibrations & movements are expected.

Advantages:

- High adhesive and bond strength.
- Water proof, permanent immersion in water does not affect adhesion.
- Non slip.
- Can be used for thin or thick bed application.
- Good pot life.

Technical Properties:

Color :	Grey or White powder
Application Temperature Range:	(+5°C) - (+35°C)
Mixing Ratio:	6-7.5 liters water / 25 kg powder, 26%-28%
Slip:	≤ 0.5 mm
Open Time :	After 30 minutes ≥ 0.5 N/mm ²
Grouting :	8 hours on wall; 24 hours after on floor
Consumption:	4-5 kg/m ²
Tensile Adhesion Strength:	initial ≥ 1 N/mm ²
	after heat exposure ≥ 1 N/mm ²
	after immersion in water ≥ 1 N/mm ²
	after freeze/thaw cycles ≥ 1 N/mm ²
Deformability:	≥ 2.5 mm-S1 Deformable
Service Temperature Range (after final cure):	(-40°C) - (+80°C)



Coverage:

Solid fixing bed :	3 to 5mm thick 3.3 to 5.5 kg/m ² .
Notched trowel :	2 kg/m ² (on smooth surface).
Yield :	25 kg of iso super flex when mixed with 6.25 Lt of water yields 16.4 Lt of mixed adhesive

Application procedure:

surface preparation

The surface to be tiled should be structurally sound, free from laitance, paint, oil, grease, shuttering oil, residual curing compound and any other loose particles. Ensure that tiles are dry and free from any contaminates. Porous concrete surface or mortars should be wet down prior to application of Iso super flex.

Mixing

Take measured quantity of clean water in a vessel 6,25 Lt for 25 kg of Iso super flex, add the powder gradually and mix for 3 to 4 minutes until a uniform lump free consistency is obtained. A slow speed drill fitted with a paddle is recommended for mixing. Hand mixing is recommended only for small quantity but ensure that powder/water ratio is maintained.

Standards:

BS 5980 type 1 class AA
BS 5385 part 1
ANSI A 118.1

-Application

Apply Iso super flex to a uniform thickness of 3mm to 5mm on the substrate. Do not spread more than 1 m² at a time. Solid bed fixing is recommended for wet conditions and heavy duty vertical applications including decorative stone cladding. If required the Iso super flex can additionally be buttered on the backs of the tiles to ensure full adhesive contact. For all other vertical application the adhesive bed should be combed horizontally with a full notched trowel to remove excess adhesive. Place it into position with slight twisting motion, ensuring the tile back achieves full contact with the adhesive. Grouting of joints can be started after 24 hours with Iso grout.

Cleaning:

Clean all the tools with water immediately after use. Hardened materials can be removed mechanically only.

Packing:

Grey - 25kg
White - 20kg

Storage:

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf life:

Shelf life is up to 12 months when stored as per recommendations.

Health and Safety:

As with all construction chemical product, caution should be always exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally allowed, do not induce vomiting, but call for medical assistance immediately.

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