

## Hi-Bond C-50 Concentrate

### Description

Happilac HI-BOND C-50 Concentrate is economical tile bond concentrate that exceptionally reinforces the adhesion of variety of masonry substrates when mixed with cement and sand. This powder formulation is made of precisely selected additives and cross-linking polymers that greatly promote adhesion and inhibit water penetration resulting in robust and strong attachment for decades.

### Features

- Provides exceptional adhesive strength
- 6 times stronger than Portland cement
- Damp and Water resistant
- Ready to use and easy application
- Long open time
- Dual purpose e.g. floors and walls
- Rapid hardening

### Recommended For

Happilac HI-Bond C-50 Concentrate is recommended for variety of cementitious surfaces including fixing tiles, ceramics, vitrified walls, swimming pool tiles, concrete and other masonry work.

### Limitations

- Movement joints should be provided in accordance with normal practices.
- Keep the product away from moisture and dampness.

### Technical Details

#### Recommended recipe

Cement	25kg
Sand	25kg
HI- Bond C-50 Pouch:	0.5 kg
<b>Total:</b>	<b>50.5kg</b>

#### Adhesive tensile strength according to DIN EN 1348

Water storage	28d	PSI	203
Dry storage	28d	PSI	290
Frost dew change temperature	28d	PSI	174

#### Analysis of open time DIN EN 1346 tiling of stoneware tiles:

10 min. **A.T.S	28d	PSI	261
20 min. **A.T.S	28d	PSI	188
30 min. **A.T.S	28d	PSI	145

#### Deformation according to DIN EN 12002:

Strength	28d	N	13
Deflection	28d	m,m	2,2

### Analysis of Slipping according to DIN EN 1308:

Slipping measurement

N 13

### Surface Preparation and Application Guide

The substrate must be clean, solid and able to bear load. Greases, waxes and other oil contaminants must be thoroughly removed. Unsound surfaces must be leveled with mortar. Concrete floors are to be leveled with soft smooth screed leveler. Residual moisture content must be below 5% for newly installed cement screeds.

Apply thin bond coat to the surface with the straight edge of trowel. Don't exceed the mortar quantity required to cover the tile. Ensure the open time by touching the adhesive bond with your finger. Press tiles onto the adhesive before it skins and ensure that the tiles are fully supported with the adhesive with no voids. Occasionally, in order to ensure that full coverage is being maintained, a tile should be removed, the adhesive coverage noted and the tile is re-laid accordingly. Once the tiles have been laid, they must not be trafficked upon or disturbed for a minimum of 24 hours at 20°C.

### Available Packs and Storage

The product is supplied in powder and/granule form packed in 0.5kg plastic sacks.

The product must be stored in a cool dry and well ventilated place away from source of heat and ignition. Keep the sack closed and handle with care.

### Health and Safety Notes

- When applying, wear appropriate eye protection.
- In case of eye contact with product, rinse with plenty of water for at least 10 minutes.
- Don't breathe spray mist or dust.
- Ensure proper ventilation when applying.
- If swallowed, it may cause serious damage.
- When empty, don't use its sack for edible storage.
- Keep out of reach of the children.
- Pregnant women are advised to avoid breathing of paint mist or spray.
- In case of any emergency, undergo medical supervision as soon as possible.

**CAUTION:** Scraping/sanding off previously painted surfaces may release lead dust or fumes. Lead is highly toxic; take protective measures thoroughly when rubbing off the old surfaces.