



# DU PLAST 20

## Fibre Reinforced Cementitious Mortar

### Description

Dubond's **DU PLAST 20** is single component mortar with fine granulometry that forms a highly protective and fine finish on concrete. The thixotropic polymer based Du Plast 20 has correction range of thicknesses from 1 to 10 mm and has monolithic compactness and dimensional stability.

### Areas of Application

DU Plast 20 is suitable for internal use for high resistance correcting (1 mm to 10 mm) of irregular and undulated substrates to be made ready for ceramics, homogeneous tiles, marbles parquet and resilient materials.

### Areas of Application

- Levelling of uneven walls made of concrete or cementitious plaster in interiors or exteriors
- Smoothing of substrates consisting of concrete, stone, brick, cement blocks or cementitious plaster of adequate mechanical strength, in interiors/exteriors for improved adhesion.
- Reinforced plaster for consolidating unsound masonry improved bonding to smooth substrates with low absorbency.
- Compensates shrinkage.
- High durability to aggressive substrates such as sulphates and chlorides.
- It is impermeable to rains and has calibrated shrinkage.
- The fluidifying agents reduce water/cement ratio while interstitial crystallizing agent provide stable chemical structure that is resistant to carbonation, nitrates, sulphates and chloride attracts.



### Preparation of Substrates

Substrates must be stable, dry, free from any rising damp, without cracks, free from dust, oil, grease and loose, flaky parts. On substrates which are compact but very absorbent, apply Hydro Prime, Water-based surface insulations, in order to reduce and regulate the level of absorption. In the case of absorbent substrates with weak consistency, apply in double coats without dilution of water.

### Preparation

Prepare DU Plast 20 in a clean container by pouring in 3/4 of the water required. Gradually add DU Plast 20 to the water, mixing the paste with a low-rev (400/min.) helicoidal agitator. Add water until a homogeneous, lump-free mortar is obtained. The amount of water to be added indicated on the packaging, is an approximate guide.

### Application

Apply Du Plast 20 with a smooth spreader. The high level of thixotropy of the mixture allows for high finishing thicknesses with just one coating. It is generally advisable to apply an initial fine layer, pressing the product down to obtain maximum adhesion to the substrate and to adjust water absorption of subsequent layers. The appearance of the finish will vary depending on whether a smooth steel spreader or a sponge spreader has been used for application. For subsequent laying of ceramics tiles it is always advisable to obtain a roughened, porous surface.

## ■ Precautions & Limitations

- Do not use DU Plast 20 for levelling purposes or for the correction of substrate irregularities greater than 10 mm.
- Do not add other binders or additives to the mixture low temperatures and high relative environment humidity lengthen drying times an excessive quantity of water will reduce strength and the drying time before laying hardwood floors and resilient materials.
- Check residual humidity with a hygrometer calcium carbide.  
Protect from direct sunlight and currents of air for the first 12 hours.
- Respect the elastic joints present in the substrate.
- Do not use on high flexible substrates subjected to thermal expansion, plasterboard, gypsum, on substrates subjected to continuous moisture rising.

## ■ Technical Information

Properties	Specification	Result
Mixing Water	5.5 Ltr. / Bag 25 kg.	
Mixture Spread	75%	EN 13395-1
Specific Weight of the mixture	1.94 kg / Dm <sup>3</sup>	UN 17121
pH of mixture	~12	
Pot Life	> 1 Hour	
Temperature range of application.	From +5°C to +35°C	
Min. Thickness	1 mm	
Max. Thickness Achievable by coat	3 mm	
Max. Thickness Achievable	10 mm	

## ■ Final Characteristics

Adhesion to concrete after 28 days	22 MPa	EN 1542
Compressive strength after 28 days.	> 20 MPa	EN 12190
Flexural strength after 28 days	> 3.5 AVa	EN 12190
Shear strength after 26 days	24 MPa	EN 12615
Resistance to Carbonation K	< 0.6 mm year	BdUem8/88-OS/LFB
Resistance to Sulphates (Expansion)	~ 0.03%	

## ■ Resistance to freeze / thaw cycles with de-freezing soils

Weight loss after 25 cycles	< 1 mg / mm <sup>2</sup>	RILEM CDC 2/77
Depth of splintering after 25 cycles	< 2 mm	RILEM CDC 2/77

## ■ Coverage

1.6 Kg / m<sup>2</sup> per mm of thickness.

## ■ Packaging

**25 Kg of Bag.**

## ■ Shelf Life & Storage

12 months in the original packaging in dry environment.

## ■ Health & Safety Precautions

- During application wear protective clothing, gloves and eye goggles during application. Avoid product to contact eyes and skin
- **Skin Contact** : Wash immediately with plenty of clean water, use kerosene or mineral turpentine when the product has dried.
- **Eye Contact** : In the event of eye contact splash plenty of clean water immediately and seek medical advice.

## ■ Cleaning

Residual traces of Dubond Du Plast 20 can be removed from machinery and tools with water before the product has hardened.



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