

POLYLASTIC

Synthetic Binder for Cementitious Tile Adhesives & Grouts

Description

POLYLASTIC is a synthetic polymer admixture concentrate that is designed for use as an integral property's improvement admixture for cementitious tile adhesives and grouts. The modification of field blended tile adhesives or grout with **POLYLASTIC** will significantly improve substrate adhesion, workability, abrasion and chemical resistance, freeze/thaw durability, waterproofing and overall enhancements to the physical properties of cementitious materials.

Features & Benefits

- Significant improves adhesion to underlaying substrates.
- Increase tensile and mechanical properties.
- Improves abrasion resistance of mortars
- Increase durability against freeze/thaw cycles
- Improves workability and troweling characteristics
- Reduce shrinkage of cement mortars
- Reduce permeability and water absorption
- Increase the elasticity of mortars

Uses

POLYLASTIC can be used with **TILE BOND** cementitious tile adhesive family or **ULTRACOLOR** grout as full or partial replacement to the mixing water to improve the physical properties of mortar. It can be used in the following areas:

- Bathrooms, showers, kitchens and balconies
- Swimming pools, fountains, steam and sauna rooms, heated floors
- Cooling and refrigerating rooms
- For exterior and interior applications where high bonding and elasticity are required
- For application on non-absorbent or high porous substrates.
- For Facades and applications on precast concrete

Technical Properties

Appearance	Milky White liquid
Density	1,050 Kg/m ³ approx.
Flammability	None, water based
pH	8 - 9
VOC	<10 g/L
TILEBOND 20 mixed with POLYLASTIC	
Consistency	Thixotropic
Adhesion Strength	After 28 days
Initial adhesion	2.0 N/mm ²
After heating	2.2 N/mm ²
After water immersion	1.5 N/mm ²
After freeze/thaw cycles	1.5 N/mm ²
Water absorption	Low
Therma expansion coefficient	12.7 X 10 ⁻⁶ / °C
ULTRACOLOR (0-6) mixed with POLYLASTIC	
Flexural strength	7.5 N/mm ²
Compressive strength	25 N/mm ²
Water absorption	<5% after 30min
Linear shrinkage	<3.0 mm/ m

All values are subject to 5-10% tolerance

Standards Compliance:

As admixture to **TILE BOND** mortars:

- EN 12004 C2, S1 & S2 type
- ANSI 118.4
- BS 5385
- ISO 13007 C2, S1& S2 type

As admixture to **ULTRACOLOR** grout:

- EN 13888 - CG2
- ANSI A118.6

Application Procedures

Surface preparation:

Surfaces must be prepared thoroughly before commencing application. All substrates must be

structurally sound, stable, dry, and clean. Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of membrane application. All surfaces are to be free of sharp protruding surfaces, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains. Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods. Moisten the surface with clean water. Gypsum substrate should be primed with ULTRAPRIME AR.

Application Instructions:

POLYLASTIC admixture can be added totally or partially (50% of water) replacement to the mixing water. Shake the container of latex before use.

For tile adhesive application: mix the required ratio of dilution of **POLYLASTIC** with water in a clean container and add the TILE BOND powder bag gradually with mixing until homogeneous lumps free mixture is achieved. Apply the mortar adhesive according to the method of application in TILE BOND technical data sheet.

For grouting application: dilute **POLYLASTIC** with water (in ration 1:1) and add 6-6.5 Ltr. of the diluted latex into a clean container then add the powder ULTRACOLOR bag (20kg) gradually with mixing till homogenous color lamps free mix is achieved. Apply the grout according to the application procedures in product data sheet.

Packaging

POLYLASTIC is available in 5 & 20 Ltr Plastic Jerkin

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

SBI products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All SBI datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.

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