

POLYA CRYLIC D

Acrylic Latex Bonding Admixture, Concrete Mortar Modifier

PRODUCT DESCRIPTION

POLYA CRYLIC D is a water dispersion of architectural grade acrylic latex specially designed for modifying cement based compositions improving their physical & mechanical properties.

Typical applications

POLY ACRYLIC D improves the tensile, flexural, compressive, adhesion, cohesion, curing and waterproofing properties while reducing shrinkage and cracking for concrete & cementations mortar for the following applications:

- Water-resistant renders for interior/exterior walls & floors.
- Laying industrial flooring, screeding and toppings.
- Lining of effluent ducts, tanks.. etc.
- Protection against corrosion of steel reinforcement rods.
- Repairing and leveling worn concrete in precast structures.
- Masonry mortars.
- Tile fixing mortars.
- Structural repair mortar for concrete.

PRODUCT FEATURES

- Non-yellowing with excellent resistance to UV degradation.
- Easy to mix and apply with economical considerations
- Improve the tensile, flexural, compressive and adhesive properties.
- Water resistant.
- Mixes containing **POLY ACRYLIC D** are crack free.
- Increases abrasion and wearing resistance.
- Improves durability.
- Improves impermeability.
- It can be used as a curing compound.

STANDARDS

POLY ACRYLIC D complies with the requirements of the following standards:

ANSI A 118.4

(Latex Portland cement mortar)

ANSI A 136.1

(Rubberized cement adhesive)

ASTM C-631

(Bonding compound -interior plaster)

ASTM C-932

(Bonding Compound-exterior use)

PROPERTIES

Appearance

White milky liquid based on modified acrylic emulsion

PH Value

9

Specific Gravity @ 25° C

1.02

Viscosity (cPs)

350

Compatibility

Compatible with all types of Portland cements

Freeze-thaw Resistance

Excellent (Stable 5 cycles)

Curing Properties

POLY ACRYLIC D has an excellent curing efficiency.

GUIDE FOR APPLICATION

Surface Preparation

Prepare a good clean structural surface for bonding by removing all loose materials or disintegrated concrete, traces of oil greases, curing compounds, etc. should be removed by chipping out the affected areas of concrete and finally sweep or blow off the surface so as to remove dust which will prohibit proper bonding. Areas to be treated should be pre-wetted, but do not leave pools of standing water before using bonding slurry.

1) For Use as Bonding Agent Bonding Slurry For optimum bond strength mix **POLY ACRYLIC D**, undiluted with Portland cement. Mix 1 part Portland cement with 3 parts dry washed sand and undiluted **POLY ACRYLIC D - I** to produce pour able slurry. Brush the mixture thoroughly into voids pores surfaces to eliminate air pockets. Before slurry coat dries, apply immediately with filed mixed or manufactured patching materials.

II) For use as an Admixture

As an admixture **POLY ACRYLIC D** can be used for **horizontal, vertical and overhead repair** application, with the following suggested mix proportions in table 1.

APPLICATIONS

When repairing large areas where depth of repair exceed 5 mm., prime the surface with the slurry coat and immediately apply **POLY ACRYLIC D** repair mortar while , slurry is still tacky.

Due to the excellent adhesive properties of **POLY ACRYLIC D**, it is advisable to clean tools frequently and to wash equipments immediately after use.

Cleaning

Clean tools and equipments with water immediately after use.

PACKAGING

POLY ACRYLIC D is supplied in 220 liters,

STORAGE

POLY ACRYLIC D should be kept in unopened containers & protected from frost or extremely temperatures

GUARANTEE/WARRANTY

We warrant our products to be of good quality and manufactured to rigid standards. This warranty is in lieu of any and all other warranties expressed or implied.

This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose.

POLYCOO services is free and the company dose not accept liability for any loss arising from it.

TECHNICAL SERVICES

For any further technical advice and recommendation for the use of all **POLYCOO** products, please consult the nearest **POLYCOO** technical office.

Table I

Application	Dilution Rate	
	EAMIBON AR	Water
Patches, overlays, topping (1 part cement + 3 parts zone2 sand)	1	3
Terrazzo	1	3
Cement Plaster Coating	1	2

Mechanical Properties

Following table shows the improvement in mechanical properties when using **POLY ACRYLIC D**

Properties	Results	
	Control	With EAMIBOND AR
Compressive Strength (N/mm ²)	35-40	45-50
Flexural Strength (N/mm ²)	9	14
Slant Sheer	5	20

Results after 28 days cured with **POLYACRYLIC D** for Cement / sand mortar

Shelf Life

One year

Important Recommendation

- Protect the uncured mortar from frost and rain.
- Do not retemper mortar after initial set.
- Can be used as a curing agent to prevent drying out.



Under technical collaboration with

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