



Paint Academy Tutorial 26

Plastering and Re-Plastering using AcryLatex for Waterproof Plaster

DETERMINING YOUR PRODUCT REQUIREMENT:

- Measure area to which paint is to be applied.
- Depending on surface to which the product is to be applied, determine which products are needed. (Refer to Product Specifier Tool)
- Check the Theoretical Spread Rates (TSR) on each of the specified products and see how many coats of each are recommended, then calculate what quantities of each product you will require, remembering to make adjustments for the porosity of each surface. TSRs are based on products applied to smooth, sealed surfaces. (e.g. an unsealed scratch plaster surface will absorb more paint than a sealed smooth one, so allow for a lower spread rate).
- Check out the specifications on all the top coat choices (referring to the relevant data sheets) and decide which is right for you.

BEFORE PLASTERING

Surface Preparation

1. It is essential that all surfaces are free from crumbly or other unsound areas. Dusty patches, old paint and contaminants such as oil and grease must be removed prior to application of **AcryLatex** modified cements. Cement substrates should be dampened with water prior to application. Old walls and floors may require mechanical scarifying (chipping) prior to application while new smooth surfaces may require etching using hydrochloric acid. Always ensure thorough washing to remove all traces of acid. Water damaged/crumbly plaster should be removed back to brick or a sound surface and to DPC (damp proof course) level, and then repaired as per no. 4 below.
2. Applications of **AcryLatex** modified plaster mortars should be restricted to no more than 10mm per coat. Greater thickness may tend to sag or even fall off. Several coats may however be applied in fairly rapid succession. The time required between coats will vary according to conditions, but reaction time for the mortar is typically 15 to 30 minutes.

Application Method

1. **Primer (Bitumen surfaces, walls and floors)** Priming is normally required to obtain maximum adhesion of the subsequent renderings or coatings. The primer is prepared by mixing one part Portland cement with one part **Acrylatex**. The slurry is then brushed onto the required surface ensuring that all the brush strokes end in the same direction e.g. Vertical. Apply a second slurry coat at right angles to the first coat e.g. horizontal. Allow half to one hour drying time between applications. Allow 48 hours drying time before over coating.
2. **General-purpose wall plasters and floor screeds.**

Plaster Sand / River Sand:	150 kg
Ordinary Portland Cement:	50 kg
Acrylatex:	10 litres
Water:	As required for consistency

It is recommended that all wall and floor surfaces be primed as described in 1 above and that the plaster or screed mortars be applied whilst the priming coat is still sticky. Mortars can be laid to any thickness, down to a featheredge if necessary. However, a sufficiently fine grade of sand should be used and no ultra fine clay- like materials must be present in the sand.

3. Concrete and heavy duty flooring

River Sand:	150 kg
Crushed Granite Stone:	150 kg
Ordinary Portland Cement:	100 kg
AcryLatex:	20 Litres
Water:	As required for consistency.

It is recommended that all existing floors be prepared as described above, followed by priming as described in 1 above.

4. **Water and moisture resistant mortars.** (Plaster) It will be required that surfaces be prepared as described above, followed by priming as described in 1 above. The primer coat must be left to dry for at least 48 hours after application. Ensure the entire area is completely sealed after each application of the primer coat. Before application of the plaster mortar a tack coat of **PlasterBond** should be applied and the plaster mortar applied, as soon as the **PlasterBond** has dried, in the following proportions:

Plaster Sand:	150 kg
Ordinary Portland Cement:	50 kg
AcryLatex:	15 - 20 Litres
Water:	As required for consistency.

The amount of **AcryLatex** required in the mortar composition depends upon the degree of water resistance required and the conditions prevailing. Where high hydrostatic pressures are anticipated, the level of **AcryLatex** could be increased to levels where no water is required in the composition of the mortar.

Relevant Product Information

AcryLatex

Theoretical Spread Rate	N/A
No. of Coats required	N/A
Application Method	Brush, Roller or spray
Drying Time	@ 25°C - 48 hours (in slurry form)
Dilution	1:1 with water or as per requirement for specific use.

PlasterBond

Theoretical Spread Rate	12m ² per litre
No. of Coats required	1 Coat
Application Method	Brush, Roller or Spray
Drying Time	@ 25°C – 20 minutes