

### FloArm HPU C

Heavy Duty Polyurethane Render for Vertical surfaces  
(HD PUR Technology with High Resistance to Aggressive  
Chemicals.)



#### TECHNICAL DATA SHEET

#### Product Description

Flow Arm HPU C is a Four -part polyurethane render for covering vertical surfaces. It is designed for application by coving trowel at thicknesses of 50x50 mm and above. Flow Arm HPU C should always applied onto FloArmTOP HPU 2 as scratch coat wet on wet application.

#### Uses

Flow Arm HPU C is used to form coves and skirtings and to protect plinths, drains, tank bases, sumps, effluent storage pits and other vertical surfaces.

#### Features and Benefits

- Easy to clean
- Non-dusting
- Fast application
- Can be laid on 7-day-old concrete / 3-day-old polymer screed.
- Short curing times.
- Hygienic and safe
- Non-tainting
- Monolithic – minimises joints
- Long life
- Resistant to almost all chemicals
- Excellent wear and impact resistance
- Resistant to temperatures -40°C to +120°C

#### Application Method

##### Application Substrate quality :

Substrate will normally be concrete or polymer- modified screeds. Other substrates may be suitable, consult your specialist applicator or MYK Arment office for advice.

All substrates must be clean and free from dust and loose particles. Concrete and other cementitious substrates must be visibly dry and have a minimum tensile (pull-off) strength of 1.5 N/m<sup>2</sup>. Flow Arm HPU C may be applied to substrates of lower strength, but the long-term performance of the floor may be affected. All traces of contaminants, such as oils, fats, greases, paint residues, chemicals, algae and laitance, should be removed.

##### Preparation of substrate

As with all surface coatings, proper surface preparation is vital to ensure the successful application and performance of Flow Arm HPU C.

For practical reasons, coves are generally prepared by wire-brushing or grinding, whilst vertical surfaces may require abrasive blasting followed by vacuum cleaning to remove loose particles.

##### Mixing and application

Full details of correct mixing and application procedures for both FloArmTOP HPU 2 and Flow Arm HPU C are given in the Application Methodology which is available to authorized and specialist applicators only.

##### Expert installation

Installed only by fully-trained applicators.

##### Preparation of Grooves (Chases):

Cut grooves with cutting machine at the floor approx. 3- 5 mm inside of edges of coving in wall as well as on floor. Depth and width of the groove would be 8 to 10 mm .Grooves preparation before the primer/scratch coat application is mandatory. Consult MYK Arment technical sell for guide on groves design in your floor area.

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### Coverage:

Generally application of coving of size for 75 x 75 mm

Flow Arm TOP HPU 2	Approx 0.55 kgs per
Flow Arm HPU C (75 mm)	Approx 3 to 3.5 kg per RMT
PU putty	0.2 kgs/RMT
PUD colour matt/glossy	50-60 gms / RMT

Cove radiuses not include. Coverage is influenced by  
substrate roughness, porosity and temperature

### Curing:

The following table should be used as a guide at 15 -  
25°C:

Operational	8 hours
Full traffic and chemical resistance	48 hours

### Chemical Resistance

Flow Arm HPU C will resist spillages of dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric dilute and concentrated alkalis, including sodium hydroxide to 50% concentration most dilute and concentrated organic acids fats, oils and sugars mineral oils, kerosene, gasoline and brake fluids most organic solvents In many cases resistance is maintained to elevated temperatures even under thermal shock conditions. Temperature resistance is, however, dependent on thickness. At 3mm a maximum service temperature of 60°C should be observed. This rises to 120°C at a thickness of 9mm. Detailed information on chemical resistance is available from MYK Arment..

### Cleaning & Hygiene:

Cleaning of plant and equipment should be undertaken well away from the application area. FloArm Tool Clean – 1 will be used to clean equipment, tools and spillages. In the case of spillages, excess material must first be absorbed onto sawdust or other disposable absorbent medium. Use correct handling procedures with solvents and take care to avoid any accidental spillage or splashes onto coated surfaces.

Hardener Part containers may contain small amounts of unreacted diisocyanates (MDI). Therefore they must be contaminated with a 5% solution of soda ash (sodium carbonate or washing soda) prior to disposal as building waste.



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### Maintenance

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt. Specialised floor cleaning equipment and chemicals are readily available and the suppliers are able to offer advice on appropriate cleaning regimes. Consult your specialist applicator or MYK Arment office for advice.

### Colors:

Flow Arm HPU C is available in six standard colours as per the PU flooring shade card Other colours may be available to meet special requirements, but will be subject to minimum order quantities and may require extended lead times.

### Storage in Shelf life:-

6 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost



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### Technical Data

Samples cured for 28 days at 20°C

Density (BS 6319 Part 5)	2100kg/m <sup>3</sup>
Compressive strength ( I S 9 1 6 2 )	30N/mm <sup>2</sup>
Tensile strength ( I S 9 1 6 2 )	6N/mm <sup>2</sup>
Flexural strength ( I S 9 1 6 2 )	10N/mm <sup>2</sup>
Dynamic elastic modulus (ASTM C597-83)	18000N/mm <sup>2</sup>
Adhesive strength to concrete (ASTM 4541 )1260 primed surface	concrete failure >1.5 N/mm <sup>2</sup>
Co-efficient of thermal expansion (ASTM C531 Part 4.05)	2.4 x 10 <sup>-5</sup> °C
Water absorption (ASTM )	0ml
Surface spread of flame (BS 476 : Part 7)	Class 2

Properties listed are only for guidance and are not a guarantee of performance

### Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted. The following general comments apply to all products. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

### Product Categories Available



### Packaging

Flow Arm HPU C is supplied as a 46 kg. Four component kit

### Storage & Shelf Life

Store under cover, out of direct sunlight and protect from Extremes of temperatures. Shelf Life is 6 Months.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult MYK Arment Technical Services Department.

### Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.