

QUICKCRETE

FEATHER COAT

1. DESCRIPTION

QuickCrete Feather Coat is a 1 component polymer modified mortar specifically designed for quick and easy repair of localized concrete substrate problems such as “honey combing”, “bug holes and form work irregularities.

QuickCrete Feather Coat provides a rapid and economical means to repair and prepare concrete substrates prior to the application of VIP protective membranes. Closing honey combing and bug holes caused by air entrapment against form work **QuickCrete Feather Coat** allows for rapid over coating and reduces outgassing and pin holing commonly associated with hot applied instant setting protective coatings.

QuickCrete Feather Coat is an ideal substrate patch and fill solution for all VIP Hot spray protective membranes.

2. FEATURES

- ✓ Very good adhesion to standard concrete substrates
- ✓ No primer required - just add water and apply
- ✓ Can be applied over concrete substrates with high moisture content
- ✓ Can be overcoated in as little as 4 hours
- ✓ Suitable for horizontal and vertical applications
- ✓ Can be “feathered” to a thin finish
- ✓ Suitable for internal, external and submersed applications
- ✓ 100% solids, VOC-free, contains zero solvents

3. TYPICAL USES

- ✓ As a repair and patch mortar on concrete substrates
- ✓ Filling of “Honey comb” sections in pre-cast concrete
- ✓ Repair of de-moulding damage
- ✓ Repair of exposed aggregate pockets

QUICKCRETE

FEATHER COAT

4. PROCESSING PROPERTIES	DATA
Material consumption [kg/m ² /1mm]	Approx. 1.5
Maximum thickness per layer [mm]	Not a structural mortar Do not apply as a multiple layer coating. Hole and patch filling.
Approximate Working time of mix @ 20°C	45 minutes
Approximate set time at 20C	2 - 3 hours
Approximate hard set @ 20C	4 - 6 hours
Full load bearing	4 days
Minimum application temperature (substrate / ambient)	+5
Maximum application temperature [°C]	+35
Approximate shelf life	12 months in unopened correctly stored packaging

5. PHYSICAL PROPERTIES	DATA	
VOC-content	-	0%
Solids content	-	100%
Adhesion on concrete	EN 1542	2.2 mpa
Flexural strength – 28 days	EN 1015-11	6 mpa
Density once cured (G/CM ³)	EN 1015-10	1.8
Compressive strength - 28 days	EN 12190	25+ mpa

QUICKCRETE

FEATHER COAT

6. SUBSTRATE PREPARATION:

Ensure the substrate is clean and free from contaminants such as dirt, grease, release agents, curing agents, waxes and oil. Remove all loose material using a vacuum.

Cracks in the concrete should be opened to a minimum of 2mm and repaired prior to over coating with **QuickCrete Feathercoat**. Consult with VIP for crack repair options.

The prepared substrate should be soaked with water for at least 3 hours before application. The substrate should be damp but there should be no pooling water present.

7. MIXING INSTRUCTIONS:

Place clean fresh water into a container (Approx. 4 – 4.5Litres) and slowly add the contents of 1 bag of **QuickCrete Feather Coat** to the water whilst stirring using a slow speed drill (400 – 600rpm) until you achieve a smooth lump free homogenous mortar. Additional water can be added during this mixing stage to achieve the desired consistency. Avoid over stirring.

Allow the mix to sit for 2-3 minutes and then re-mix again briefly. If **QuickCrete Feather Coat** loses its workability re-mix using the power drill but do not add more water. Do not add additional sands, cements or aggregates. Use only the contents of the **QuickCrete Feather Coat** bag.

Mix only enough material that can be applied in 40 minutes.

8. APPLICATION NOTES

Apply **QuickCrete Feather Coat** using a trowel. Force the material into the bug holes and honeycombing in the concrete. Scrape away excess material leaving a flat, sealed surface. Once the **QuickCrete Feather Coat** has started to set you can create the desired surface profile using a sponge or trowel. Avoid over working the mortar and avoid adding additional water. If over coating with one of VIP's high build protective coatings it is recommended that you finish the surface profile using a sponge to a profile similar to CSP 4 - 6.

Do not apply **QuickCrete Feather Coat** if the ambient temperature is below 5 C or is expected to be below 5 c in the following 24 hours.

QuickCrete Feather Coat must be protected from rain, frost and dew until hard set is achieved. VIP high build protective coatings can be applied over **QuickCrete Feather Coat** as soon **QuickCrete Feather Coat** has achieved a hard set status and VIP's recommendations regarding maximum substrate residual moisture levels have been satisfied.

In hot and windy environments the **QuickCrete Feather Coat** should be protected from rapid drying by repeated sprinkling with water but avoid standing water. This will minimise drying cracks.

Low temperatures, high humidity, poor ventilation etc will all influence the curing and residual moisture content of **QuickCrete Feather Coat**. Substrate moisture content must be measured before applying VIP protective coatings over **QuickCrete Feather Coat**.

Note that **QuickCrete Feather Coat** is designed as a fill and repair mortar and not as a structural mortar.

QUICKCRETE

FEATHER COAT

9. HANDLING AND STORAGE

QuickCrete Feather Coat is solvent free and non-toxic. When handling and mixing the product use gloves and safety glasses. In case of skin contact wash thoroughly with water.

Store **QuickCrete Feather Coat** in a dry cool place out of direct sunlight and frost. Store products between 5C and 35C. Avoid storage temperatures below 5 C.

10. FORM OF DELIVERY

Please see our price list for respective packaging units.

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and testing, to determine the suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. These products require specialized equipment and skills to apply. It is the purchaser's responsibility to ensure that they have the necessary equipment, skills and experience to apply these products. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Technical and application information is provided for the purpose of establishing a general profile of the material and application parameters. Test performance results were obtained in a controlled environment and VIP GmbH makes no claim that these tests or any other tests can be accurately reproduced in all environments.

The rights of the purchaser regarding the quality of our materials follows completely our general terms and conditions. For requirements, which exceed the scope of the above mentioned applications please contact VIP technical staff.

VIP reserves the right to change or modify the details and data contained herein at any time.

Valid is only the actual version of this technical data sheet in each case.

© Copyright, VIP GmbH, QuickCrete Feather Coat
Version: January -2016 01