



# Product Technical Data Sheet

## Mirapatch DP

### 1. PRODUCT DESCRIPTION

#### A. COMPOSITION

Mirapatch DP is a thin-section, rapid-hardening composition that is flexible, resilient and easy to clean. Mirapatch DP produces an extremely durable, low cost, yet attractive appearance. Typical thickness up to 1 1/2 of an inch (38 mm) are easy to achieve. Mirapatch DP is light in weight and at approximately 1.2 lbs. per square foot. It can be used in the widest ranges of climates and is offered in slip-resistant profiles. Mirapatch DP is supplied as a light gray powder.

Mirapatch DP is flexible and will accept a limited amount of wave deflection in the substrate. Mirapatch DP can be installed over concrete when pre-smoothing or pitch is required.

Important characteristics of Mirapatch DP are its extraordinary adhesion coupled with its ability to withstand prolonged pedestrian and vehicular traffic. In these respects the material is far superior to conventional cementitious coatings used to resurface old or worn concrete.

Mirapatch DP provides a tough retardant coating, which substantially reduces or prevents water penetration, freeze thaw, scaling and concrete carbonation.

#### B. TYPICAL USES

- Restoration
- Sidewalk Restorations
- Concrete Restorations

#### C. ADVANTAGES / LIMITATIONS

##### Advantages

1. Rapid setting
2. Rapid hardening
3. Faster cure speed in cold weather versus standard repair mortars. Cures rapidly, as low as 45° F.
4. Just needs water. Reduces mixing errors.
5. Reduced storage space
6. Freeze-thaw stable
7. Can be pulled to a feather edge
8. Thickness above 1 1/2 inch can be achieved by incorporation of pea gravel.
9. Can be applied to vertical and overhead surfaces.

##### Limitations

1. Not designed for large, deep pours. (>2 1/2 inches). Localized deep pours are achievable.
2. Do not install in freezing weather.
3. Shade variations may occur with natural cement color material.
4. Not suitable for use in areas where acids are spilled unless specifically protected with a special acid resistant sealer.

### D. PHYSICAL CHARACTERISTICS & TECHNICAL DATA

|   |                                   |
|---|-----------------------------------|
| <b>Water Demand</b> .....   | 4 to 5 quarts/50 lb. bag          |
| <b>Bond Strength</b> (ASTM C-932 Modified) .....                            | 200 p.s.i. (No priming)           |
| <b>Absorption</b>   |                                   |
| Weight gain by 4" coated concrete cube after                                |                                   |
| 21 days water immersion .....   | <2%                               |
| Canadian Mortgage & Housing Corp.   |                                   |
| ME 8211-09230 (2" material cube, immersion 48 hrs) .....                    | 8.79%                             |
| ASTM C-642 .....  | 1.61%                             |
| Volume of permeable voids .....   | 5.07%                             |
| <b>Freeze/Thaw</b> .....  | No scaling, peeling, flaking      |
| Coated concrete cylinders immersed 8 hrs. in saltwater solution followed by |                                   |
| 16 hrs. freezing, 50 cycles   |                                   |
| <b>Weathering</b> (ASTM G153-04) .....                                      | 60 cycles, No visible degradation |
| (Weatherometer - Method 1 Procedure)  |                                   |
| <b>Resistance to Wind Driven Rain</b> @ 5" water or dampness shows          |                                   |
| Fed Spec. TT-C-565-B .....  | On back of text panels            |
| <b>Compressive Strength</b> (ASTM C579, Method A) .....                     | 5000 psi.                         |
| <b>Shore Hardness</b> (ASTM D-2240) .....                                   | Durometer 'A' >90                 |
| <b>Impact Resistance</b> (MIL-D-3134, Para. 4.7.3) .....                    | No cracking or detachment         |
| (2 lb. steel ball dropped from 8' height onto coated steel plate)           |                                   |
| <b>Water Vapor Permeability</b> (ASTM E96) .....                            | 1.95 perms/inches                 |
| <b>Flammability</b> (ASTM E84) .....  | Flame Spread 4                    |
|   | Smoke Density U                   |
| <b>Tensile Strength</b> (ASTM C307) .....                                   | 465 p.s.i.                        |
| <b>Initial Set</b> (ASTM C266) .....  | 2 hrs.                            |
| <b>Final Set</b> (ASTM C266) .....  | 6 hrs.                            |
| <b>Flexural Strength</b> (ASTM C580) .....                                  | >1,000 p.s.i.                     |
| <b>Shrinkage</b> (ASTM C531) .....  | < 0.2%                            |
| <b>Impact Resistance</b> (MIL-PRF-3135, Para. 4.7.3) .....                  | No cracking or delamination       |
| (2 lb. steel ball dropped from 8' height onto coated steel plate)           |                                   |
| <b>Water Vapor Permeability</b> (ASTM E96) .....                            | 1.95 perms/inches                 |
| <b>Flammability</b> (ASTM C531) .....                                       | <0.2%                             |

### 2. OVERVIEW OF INSTALLATION STEPS

- A. Prepare surface by careful and thorough removal of laitance, grease, and foreign matter.
- B. Primer coat optional. In most cases will not be necessary.
- C. Apply the Miracote Mirapatch DP according to Installation Guidelines.
- D. Working time is 15 minutes at 75° F.

For detailed installation instructions, please review the Miracote Mirapatch DP Installation Guide.

### 3. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Miracote Distributors are established in all major trading areas in the United States, Canada and various European, Latin American, Middle Eastern and Far Eastern nations. Mirapatch DP is supplied in 55 lb. bags.

**4. MAINTENANCE**

For maximum sheen and cleanability, floor should be routinely treated with conventional maintenance finish followed by ordinary buffing.

**5. SPECIFICATION ASSISTANCE**

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

**6. TESTING**

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



**MIRACOTE PRODUCT LINE  
Crossfield Products Corp.**

**West Coast Office**  
3000 E. Harcourt Street  
Rancho Dominguez, CA  
90221  
310-886-9100  
310-886-9119 fax

**East Coast Office**  
140 Valley Road  
Roselle Park, NJ  
07204  
908-245-2800  
908-245-0659 fax

[www.miracote.com](http://www.miracote.com)