



BULLETIN

MADISON CHEMICAL INDUSTRIES INC.

InfoTech Bulletin #1

Touch Up Materials

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Introduction

Madison Chemical offers a wide range of products that are suitable for touch-up purposes. This bulletin describes these products in Table 1, outlines some typical applications in Table 2 and assists the user in choosing the most appropriate touch-up material in Table 3.

Types of Products Available

Generally, touch-up materials have a very thick consistency and are sometimes referred to as mastics. The intention is that they can be applied in one coat at thicknesses of 20 to 50 mils, depending on the specific product and the ambient conditions such as substrate temperatures. Touch-up materials are available in 2 formats, Mix-and-Apply and PreCatalyzed (single component).

If the user is coating joints on pipe, Madison has a separate line of products, called joint coatings, specifically for that purpose. Please refer to InfoTech Bulletin No. 2.

One thing to keep in mind is that, for touch-up purposes, it is often a viable alternative to use the “parent material”. Touch-up products are most often used for repairing plural component coatings (most of which set too quickly to be hand applied), whereas Mix-and-Apply products and PreCatalyzed products are often repaired simply by using a dab of the same product.

There are three tables below. The first lists Madison's touch-up materials and describes each one in some detail. The description will give you clues as to which product to use for which application. Table No. 2 acts as a basic product selector guide for the Touch-Up materials. It describes some typical applications and suggests the most appropriate Touch-Up. Table 3 is a comparison chart outlining the set time, recoat time, temperature parameters and pot life for each product.

**TABLE 1
PRODUCT NAMES AND ATTRIBUTES OF TOUCH-UP MATERIALS**

PRODUCT NAME	ATTRIBUTES
TX Touch-Up	As above but modified with H.A.P. (hydrophobic aromatic polymers) for extra-low perm rating. Use with Madison Coatings which also contain H.A.P. (CorroCote II Classic and CorroPipe II TX-15)
GP II Touch-Up	Two component (1:1 ratio) Mix-and-Apply format polyurethane Solvent free and 100% solids Apply by brush, trowel, spatula etc. Dry to touch in 30 to 90 minutes, pot life 20 minutes Suitable for all exposures except very aggressive service such as strong solvents and concentrated acids. NSF approved – application and color dependent
CorroCote “S”	Not a touch-up product as such, but can be used for this purpose when the best chemical resistance is required This paint-like material can be applied in 2 to 3 coats of about 10 mils each Available in two versions; ceramic ‘CM’ for excellent abrasion resistance and ‘AM’ which contains an EPA registered Anti-Microbial agent
Flex II Touch-Up	Similar handling to GP II Touch-up Flexible and designed for touching up elastomeric polyurethane such as Flexcel II
MG-120	Two component (2:1) Mix-and-Apply format epoxy Solvent Free 100% Solids Apply by airless spray, roller, brush or squeegee Initial set time 5 hours @ 70°F/20°C Temperature must be above 10°C (50°F) NSF approved – application and color dependent

**TABLE 2
TYPICAL APPLICATIONS FOR MADISON TOUCH-UP PRODUCTS**

TYPICAL APPLICATION	RECOMMENDED TOUCH-UP COATING
General purpose touch up situation; time to cure not a consideration	TX Touch-Up
General purpose touch-up situation, but fast cure is important	GP II Touch-Up
Humid conditions	GP II Touch-Up
Immersion in strong chemicals	CorroCote 'S' NB: consult your chemical resistance bulletin and Madison rep for details
Potable water service	GP II Touch-Up* MG-120* Flex II Touch-Up* * All of these are color dependent
Touch-Up for elastomeric polyurethane	Flex II Touch-Up

**TABLE 3
PERFORMANCE COMPARISON FOR MADISON TOUCH-UP PRODUCTS**

Touch-Up	Initial Set Time @70°F/20°C	Recoat Time @70°F/20°C	Application Temp. °F/°C	Pot Life @70°F/20°C
TX	4 hours	Up to 2 days	30-140°F / 0-60°C	N/A
GP II	90 minutes	4 hours	0-150°F / -20-65°C	20 minutes
CC 'S'	40 min-2 hours	12-24 hours	10-150°F / -15-65°C	20-2 hours
Flex II	40-50 minutes	24 hours	0-150°F / -20-65°C	15-20 minutes
MG-120	5 hours	12-48 hours	50-90°F / 10-32°C	Within 30 minutes

Refer to individual technical data sheets for additional information on the products located in this bulletin.

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Madison, CorroCote, CorroPipe & MG Series.

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