CSP

CUSTOM SAFETY PRODUCTS

an engaged manufacturing company

RESURFACING INSTRUCTIONS

Resurfacing Kit Contents

1 Gallon CS200 Non-Skid Kit

1. 1 Gallon “A “ side and 1 Quart “B” side
2. Metal Mixing Paddle - 1
3. Hopper Spray Gun - 1

1 Gal Non-Skid Kit

1 Gallon TC#6 Paint Kit

1. Primer 450 “A” side in 2 pint cans & “B” side in2 pint cans
2. 1 gal TopCoat #6 “A”- side in 4 quart cans & “B” side in 4 quart cans
3. Pigment (color choices) in 4 pint cans
4. Toluene in 4 - 1/4 pint cans
5. 1 Gallon Plastic Pail (for mixing) - 2
6. Plastic Mixing Paddle - 1
7. Paint Gun -1 with ¼” Air Hose Fitting -1

1 Gal paint
TopCoat Kit

Preparation

To ensure effective resurfacing, here are the recommended steps:

1. Relocate Sections to a Sheltered Space: While resurfacing can be done in place, it is highly recommended to uninstall the mats and move them to a well-ventilated, dry workspace. This provides optimal conditions for cleaning, resurfacing, and drying while preventing overspray on other equipment.

2. Drying Before Reinstallation: After resurfacing, allow the mats to dry completely until they are no longer tacky to the touch. Ensure the topcoat hardens for 18–24 hours before permitting foot traffic or reinstalling.

3. Cleaning and Workspace Preparation:

1. Prior to moving, clean the mats in an open space to remove debris.
2. Transport them to a sheltered workspace, protected from environmental exposure, where resurfacing can be conducted.

4. Final Objective: Ensure mats are thoroughly cleaned and completely dry before applying the topcoat material for the best resurfacing results.

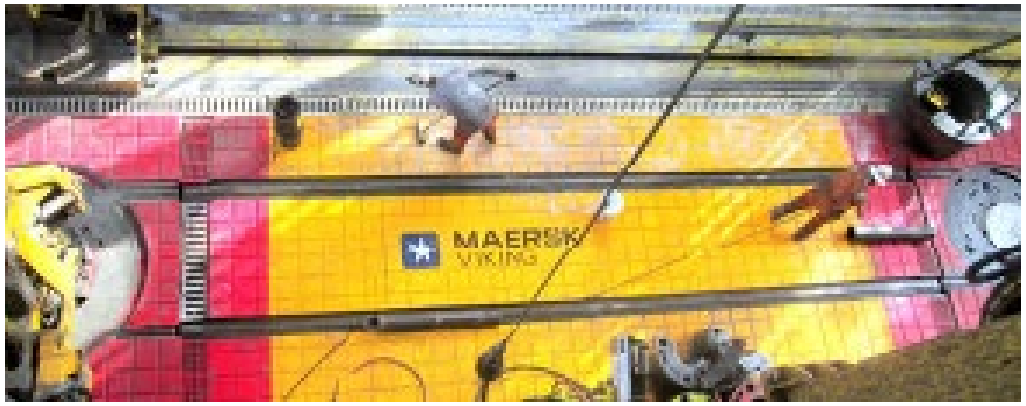
PREPARATION

Cleaning Guidelines for Mats:

1. Cleaning Methods:
   1. Use a pressure washer for thorough cleaning.
   2. Apply detergent with scrub brushes (Dawn dish soap is a great alternative if grease-cutting rig wash is unavailable).
   3. Utilize non-flammable solvents to remove oil and grease.

2. Drying Process:
   1. Ensure mats are completely dry before applying resurfacing materials.
   2. Speed up the drying process by patting them down with rags or towels (paper or cloth) and blowing them off with air.

3. Work Environment:
   1. A warmer workspace is ideal to support faster drying and optimal resurfacing conditions.



RESURFACING STEPS

1. **Surface Preparation**
    1. **Roughen the Surface:** Lightly abrade the surface using a wire brush or a grinder fitted with a wire brush attachment. This is a critical step to ensure a strong bond to the aged matting.
    2. **Clean Residue:** Use compressed air to blow away all debris and dust resulting from the wire brushing.
2. **Primer Application**
    1. **Mix the Primer:** Combine Primer 450 Parts A and B in a 50/50 ratio by volume in a small mixing pail or bucket.
    2. **Apply the Primer:** Use a brush, short-nap roller, or spray gun to apply the primer evenly and generously.
    3. **Drying Time:** Let the applied primer dry for 30 minutes before proceeding.
3. **Non-Skid Layer Application**
    1. **Prepare the Non-Skid Material:** Mix CS-200, combining Parts A and B as directed.
    2. **Application:** Apply the mixed non-skid material using a hopper designed for non-skid applications and appropriate spray equipment.

RESURFACING STEPS

4. **Topcoat Application**
    1. **Mix the Topcoat:** In a small mixing pail, thoroughly stir CS-300 Parts A and B with the Color Pigment for at least two minutes to achieve a uniform blend.
    2. Add toluene and mix for an additional 1 min
    3. **Apply the Topcoat:** Evenly spread the mixture using the spray gun or choice of a brush, roller.
5. **Curing and Reinstallation**
    1. **Curing Time:** Allow the complete system to cure for 24 hours.
    2. **Optional Recoat:** If a second coat is desired, apply it after the curing period.
    3. **Reinstall the Mats:** Once fully cured, the mats can be reinstalled for use.

Safety Guidelines

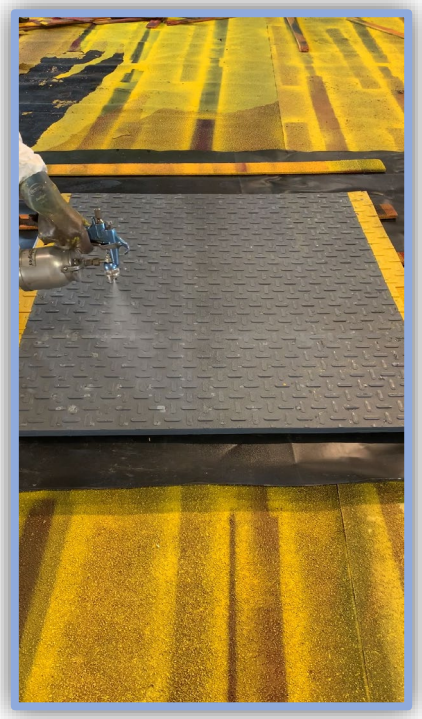
AMS® resurfacing materials contain paint-based compounds. Always wear appropriate personal protective equipment (PPE), including face masks or respirators and protective clothing.

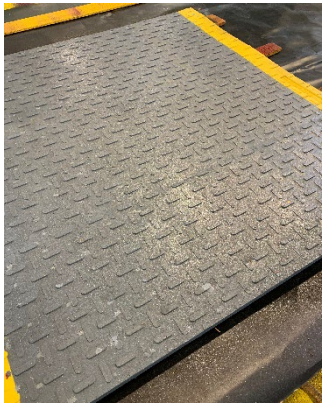
Ensure compliance with all local, regional, company, and industry safety standards when working with these materials.

RESURFACING PROCEDURE - PRIMER

MIXING AND APPLYING PRIMER

1. Ensure the surface is free from debris
2. Mix/stir Primer 450, Parts A & B - 50/50 by volume in small mixing pails or buckets. This is a simple mixing process.
3. Apply evenly and liberally with brush, short-nap paint roller or conventional spray gun until entire surface has been covered. Best results when using a High Volume Low Pressure Air (HVLP) sprayer
4. Allow to dry 30 minutes





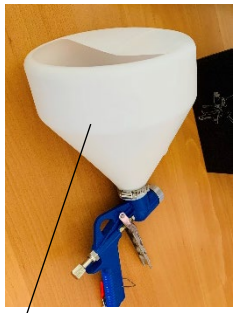
PREPARING NON-SKID

SETTING UP THE SPRAY GUN - MIXING AND APPLYING CS-200 NON-SKID

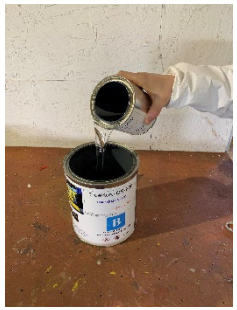
1. While the primer is setting to a tacky state prepare the spray gun and hopper.
    a. Using the largest aperture in the kit back the “flow rate set screw” out until the pistol handle can be near to or fully depressed. This will allow the most volume of material to be pulled through the nozzle.
    b. As you test spray on waste plastic or cardboard sheeting, reduce the flow rate until you achieve an even flow and dispersion of non-skid material. The objective is to have an even but not overly heavy layer of non-skid material (aluminum oxide grit) across the matting.

    (note it may take a few passes to find the volume you need to achieve vs. the speed in which you spray. In house we use shorter bursts rather than a steady stream of flow. This allows better control)

Flow Rate Set Screw



Orientate hopper on gun as shown. This prevents the material from spilling out during spraying.



Mix thoroughly with a drill and mixing paddle

APPLYING NON-SKID

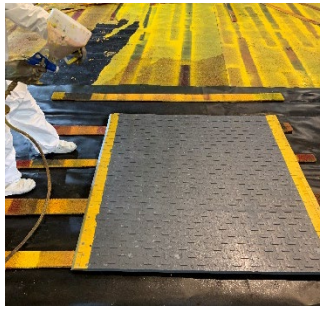
APPLYING CS-200 NON-SKID - CONTINUED

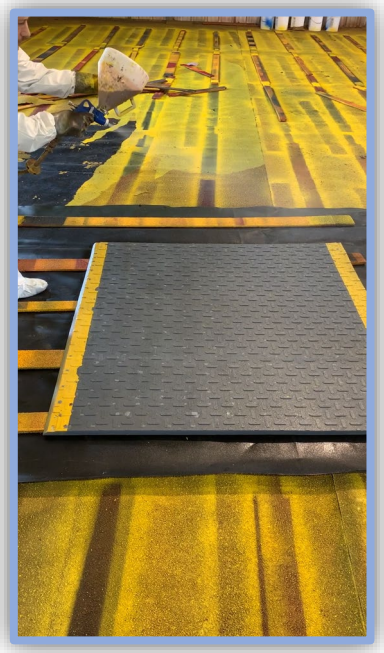
There is no rush or panic once the mixing is done as the material will not set up very quickly and gives you time to test the flow rate and volume before applying to the mats.

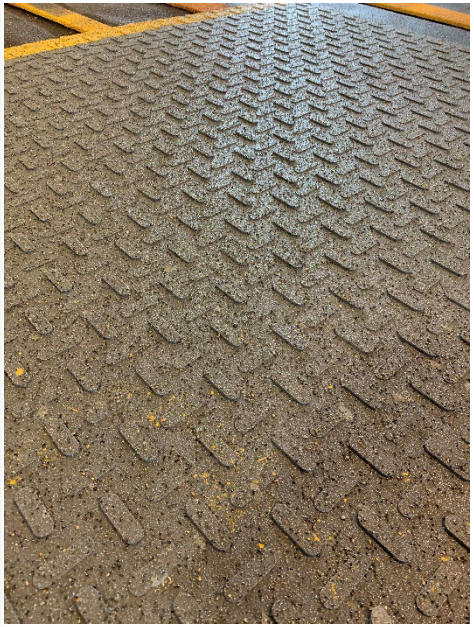
1. Once material is mixed sufficiently transfer into the hopper.
2. Attached the air supply and test spray while setting the flow rate screw. (once done skip this step for subsequent kits. Note: It is ok to adjust the flow rate as you progress)
3. Position yourself so you can spray a light amount from two opposite sides of each section.
    a. Approx. Coverage 60-80 ft2 / 5.5-7.5 m2 PER Kit
4. When spraying you should be holding the spray gun and approximately a 45^0 down angle.

Transfer material into hoper & connect air supply

<u>Air Supply Details:</u>
Average air consumption 12-15CFM
Air Pressure 70PSI
Air Inlet ¼" NPT







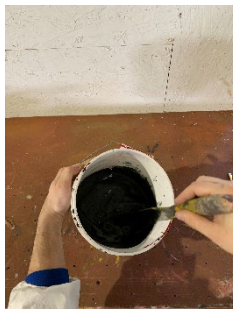
MIXING AND PREPARING TOPCOAT

This is the finishing step for resurfacing you ARCTIC PADS® Once the non-skid has been applied move immediately to mixing and preparing to apply the CS-300.

Note: Again this is not a rush but once you have a number of sections ready it is good to apply the topcoat within a couple or few hrs as all the components have a similar and bonding chemistry to one another so if the material is still in an active state the finished process will be that much better.

1. Mix/stir CS-300 parts A & B and Color Pigment tube by hand for at least two (2) minutes until sufficiently blended in a small mixing pail
2. If using as recommended a High Volume Low Pressure (HVLP) air sprayer, transfer the mixed topcoat with **Tolulene** material into the cannister. Attached the air supply and test spray while setting the flow rate screw.
    a. Note: It is ok to adjust the flow rate as you progress
    b. Approx. Coverage 100 ft2 / 9.3 m2 per quart kit

    If using a air sprayer ensure proper PPE is worn including face mask with googles or full mask
3. Position yourself so you can spray a liberal amount from two or more opposite sides of each piece. This will reduce shadowing and be a more even coating.

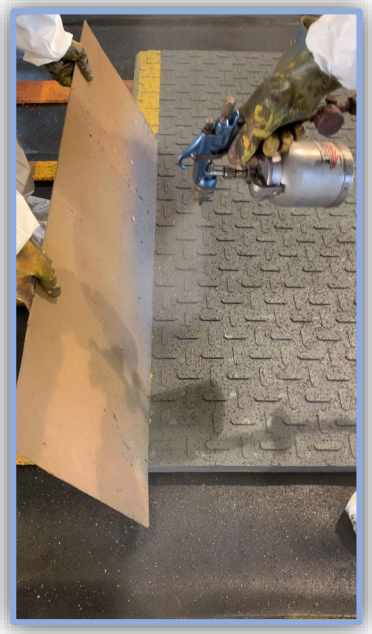


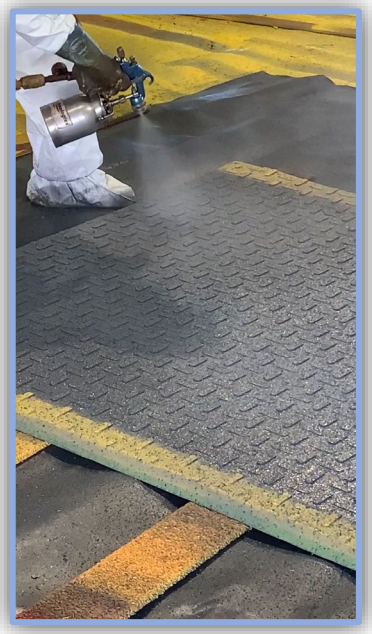
APPLYING TOPCOAT

APPLYING CS-300 TOP-COAT

This is where you make the mats look like new. Take your time but do not apply the coating too thick at first. It is much easier to apply a second coat to get the desired look and finish.

Once completed allow the mats enough time in the sheltered area to cure so they are not tacky before moving back into position. Allow 12-24hrs for curing before opening up area for foot traffic.





CSP

CUSTOM SAFETY PRODUCTS

an engaged manufacturing company

For more Information

www.customsafetyproducts.com
cspsales@customsafetyproducts.com

Note: application videos are available online