

TECHNICAL DATA SHEET

DESCRIPTION

Thin Resurfacer is a multi-purpose single component repair and resurfacing product designed for use inside or outside in thicknesses ranging from feather edge up to ½ in. (1.3 cm). Thin Resurfacer is a polymer modified cement based material that can be placed with a trowel and requires only the addition of water. Thin Resurfacer will accept light foot traffic in 1 day at 72°F (22°C) and above. Wait 2 to 3 days for heavy vehicular traffic.

USE

Thin Resurfacer is ideal for thin resurfacing of rain damaged new concrete surfaces or for badly spalled older concrete surfaces. It is used for leveling and repairing floors and resurfacing concrete areas such as sidewalks, plaza areas, driveways, parking decks, and loading docks.

FEATURES

- Thin repair/resurfacing material
- Single component, only requires water
- Resists salt penetration and damage from freeze/thaw cycles
- Superior abrasion resistance
- Polymer modified
- Can be broom finished
- Dries to a medium gray color

PROPERTIES

Compressive Strength (ASTM C-109)

- 1 day 1000 psi (6.8 MPa)
- 3 days 3000 psi (20.6 MPa)
- 7 days 5500 psi (37.9 MPa)
- 28 days 6500 psi (44.8 MPa)

Initial Set Time: approximately 1 hour at 70°F (21.1°C)
Working Time: approximately 30 minutes at 70°F (21.1°C)

Note:

The data shown is typical for controlled laboratory conditions. Reasonable variation from these results can be expected due to interlaboratory precision and bias. When testing the field mixed material, other factors such as variations in mixing, water content, temperature and curing conditions should be considered.

Estimating Guide

Yield: 0.42 cu. ft. /50 lbs. (0.012 cu m /22.7kg) 20 sq. ft. at 1/4 in. (1.9 cu. m/.6 cm) thickness 10 sq. ft. at 1/2 in (0.9 cu. m/1.3 cm) thickness

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		lbs.	kg
67483	Bag	50	22.67

STORAGE

Store in a cool, dry area free from direct sunlight.

Shelf life of unopened bags, when stored in a dry facility is 12 months. Excessive temperature differential and /or high humidity can shorten the shelf life expectancy.

APPLICATION

Surface Preparation:

Proper surface preparation is critical. Surfaces must be sound, clean, roughened and porous. All loose concrete must be removed until a firm concrete substrate is exposed. For best results, follow the ICRI standards for concrete surface preparation, removing all residue, grease, dirt, oil, etc. from the surfaces to be in contact with the repair material. Remove all previous coatings such as cures, cure and sealers or sealers. Surfaces should be roughened by sandblasting, shotblasting or other mechanical methods. The surface should be cleaned with high pressure water (>1500 psi, 10.3 MPa) before proceeding. Thin Resurfacer will not bond to a dirty or slick, smooth surface. All cracks within the substrate should be properly repaired prior to installation. Cracks that exhibit movement will reflect through the Thin Resurfacer. Joints within the concrete should be carried through the Thin Resurfacer application to avoid cracking and shear back. All surfaces to be repaired should be in a saturated-surface-dry (SSD) condition with no standing water on the surface.

Water Requirements:

3 qt. per 50 lbs. (2.8 L /22.7 kg) of material. Less water can be used if a stiffer mix is desired, but do not use more than 3 qt. (2.8 L) of water per bag.

Mixing:

When mixing less than a full unit, always first agitate the bag /pail so that a representative sample is obtained. Thin Resurfacer requires only water for mixing. During hot weather use cold water for mixing and during cold weather use hot water for mixing. Put the water into the mixing container and then add the material to the vessel containing the water. The product can be mixed with a jiffy mixer in a pail, or in a mortar mixer with rubber tipped blades. Continue mixing until the material is free of lumps (minimum of 2-3 minutes). Mix as close as possible to the area to be repaired. Using freshly mixed Thin Resurfacer, scrub a thin layer onto the SSD substrate with a stiff fiber brush and place the Thin Resurfacer before this bond coat dries.

Placement:

Following proper surface preparation and bond coat application, place immediately after mixing, troweling the material firmly into place, eliminating any air pockets assuring the maximum bond. Material can be broom finished prior to initial set. Thin Resurfacer can be used in thickness ranging from a feather edge up to ½ in. (1.3 cm). However, for improved performances, maintain at least 1/8 in. (0.3 cm) thickness.

CLEAN UP

Use water prior to material setting hard. Hardened material requires abrasive removal methods.

TECHNICAL DATA SHEET**CURING**

Cure with wet burlap for 12 hours, (do not use sprinklers or soaker hoses) then air dry, or use a Dayton Superior water-based curing compound or cure & seal. Installed material will accept light foot traffic in approximate 24 hours at 72°F (22°C) and above. Wait 2 to 3 days for heavy vehicular traffic.

LIMITATIONS**FOR PROFESSIONAL USE ONLY**

Not for application to a slick or smooth substrate. Do not retemper Thin Resurfacer after initial mixing. Do not add other cements or admixtures. Mixing equipment should be cleaned with water frequently and prior to material hardening. Minimum application temperature is 40°F (4°C). Joints or cracks in base concrete will reflect through Thin Resurfacer. Protect from rain for twenty-four hours. Rain on newly placed material may cause color streaking or pitting of surface.

PRECAUTIONS**READ SDS PRIOR TO USING PRODUCT**

- Product contains Crystalline Silica and Portland Cement – Avoid breathing dust – Silica may cause serious lung problems
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

MANUFACTURER

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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. **THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.**

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