

# Specialized Industrial Materials

## High Abrasion 100% 5 sec.

Fast Set Polyurea Hardcoat Encapsulate for use over EPS Foam, Wood and Steel

### Features

#### Impact Resistant

High Abrasion is formulated to give excellent impact and resistance even in sub-freezing temperatures.

#### Abrasion Resistant

High Abrasion has a long life-span as a protective coating for steel under abrasive conditions.

#### Customizable Finish

High Abrasion is offered in three different cure speeds to allow the sprayer to achieve either a glassy or textured finish.

#### Pure Polyurea

High Abrasion is a pure Polyurea. It is not sensitive to moisture like other polyurethane or hybrid coatings.

#### Zero VOCs

High Abrasion is a 100% solids coating and is formulated with zero VOCs.

### Application

High Abrasion should be applied through a two-component, high pressure proportioning unit. Material and hose heaters should be between 150-170°F. Pressure should be a minimum of 2400 psi. If A side and B side pressures are not equal, stop spraying and examine equipment.

Be sure to consult with a Specialized Industrial Materials representative for equipment and application training.

### Description

High Abrasion is a 1:1, fast-set, spray applied two-component polyurea hardcoat. It is 100% solids and contains zero VOCs.

Due to its excellent impact resistance, High Abrasion is the industry leading protective hardcoat for EPS foam structures. High Abrasion also exhibits excellent abrasion resistance, and serves as an abrasion resistant coating over steel.

High Abrasion is available in three different cure speeds -- 5, 10, and 15 seconds -- allowing the end-user to achieve a textured or glassy final appearance. The different products are denoted High Abrasion 5 sec, 10 sec. and 15 sec.

### Technical Data

Property	Value
<b>Hardness</b> , Shore D	50
<b>Tensile Strength</b> , psi	3200
<b>100% Modulus</b> psi	1500
<b>200% Modulus</b> psi	1800
<b>300% Modulus</b> psi	2350
<b>Tear Strength</b> , pli	675
<b>Elongation</b> , %	550
<b>Direct Impact Strength</b> , in.-lbs.	>700
<b>Abrasion Resistance</b> , mg loss CS17 wheels, 1000g, 1000 cycles	20
<b>Application Temperature</b>	
<b>Substrate</b> , °F	40 to 110
<b>Ambient</b> , °F	40 to 110
<b>Gel Time</b> , sec	5, 10, 15
<b>Tack Free Time</b> , sec	10, 20, 30
<b>Recoat Window</b> , min	25

\*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

### Safety

This product is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or a fresh air hood. Spraying indoors requires forced ventilation. Be sure to read MSDS in its entirety prior to using High Abrasion.

### Packaging, Storage, & Shelf Life

High Abrasion is available in 55 gallon drums and 275 totes. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months under normal conditions.

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