



## Base Coat and Wear course in version SA

### DESCRIPTION AND USES

Duochem 391 is a 100% solids polyurethane binder used to protect Duochem 390 waterproofing membrane.

The antiskid finish is obtained by broadcast silica sand (24 mesh at  $0.7 \text{ kg/m}^2 - 14 \text{ lbs/100 ft}^2$ ) or by using the SA version that contains pre-measured synthetic aggregate which flexibility is perfectly harmonized with the binder elasticity to produce a surface that is uniformly compressed in service, thus improving wear resistance. It is also possible to broadcast small amount of silica sand ( $0.1 \text{ kg/m}^2 - 2 \text{ lbs/100 ft}^2$ ) to enhance antiskid finish, if needed.

### APPLICATION INSTRUCTIONS

#### Surface preparation

When not used on freshly installed membrane, then mechanical preparation followed by solvent mist with Duochem 205 is required to reactivate the old urethane coating before the application of Duochem 391/391 SA.

#### Application

Mix parts A and B separately. Pour B container in A container or in recommended proportions (see technical informations) Mix thoroughly during 5 minutes then apply with notched squeegee, broadcast sand as recommended and backroll.

### PRECAUTIONS

- Read Material Safety Data Sheet before using.
- Ensure that surface temperature is at least at  $4^\circ\text{C}$  ( $39^\circ\text{F}$ ) and exceeds the dew point temperature of ambient air by at least  $3^\circ\text{C}$  ( $5^\circ\text{F}$ )

## DUOCHEM 391/391 SA

### TECHNICAL INFORMATION

Generic:	Elastomeric polyurethane
Color:	Black, grey
Solids content:	100% (V.O.C. virtually none)
Mixing ratio:	Reg: $3\frac{1}{2}$ A to 1 B SA: 4.8 A to 1 B
Pot life:	45 minutes
Suggested primer:	Apply on DUOCHEM 390

Application method:	Notched squeegee and backroll
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Number of coats:	1 in parking stalls 2 everywhere else
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Recommended thickness: (per coat)	Reg: 450-625 microns (18-25 mils) SA: 600 microns (24 mils)
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Theoretical coverage:	$985 \text{ m}^2/\text{l}$ @ 1 micron ( $1605 \text{ ft}^2/\text{US gal.}$ @ 1 mil) **
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Recoat time:	12 hours @ $23^\circ\text{C}$ ( $73^\circ\text{F}$ )
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Curing time:	48 hours for traffic at $23^\circ\text{C}$ ( $73^\circ\text{F}$ ) 7 days for full cure at $23^\circ\text{C}$ ( $73^\circ\text{F}$ )
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Shelf life:	6 months in original non opened containers stored at $15-30^\circ\text{C}$ ( $59-86^\circ\text{F}$ ).
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Packaging:	18 litres (4.76 US gallon)
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#### \*\* NOTE

To determine coverage at recommended thickness, divide theoretical coverage by thickness.

# TECHNICAL DATA



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## PHYSICAL PROPERTIES

(cured at least 7 days at 23°C)

<u>PROPERTIES</u>	<u>TEST METHODS</u>	<u>RESULTS</u>
Tensile strength	ASTM D-638 Type IV @ 50 mm/min.	4.1 MPa (595 psi)
Elongation at break	ASTM D-638 Type IV @ 50 mm/min.	205 %
Tear strength	ASTM D-623 Die C	16.9 KN/m linear (96.5 lbs/in. linear)
Hardness	ASTM D-2240	80 Shore A
Abrasion resistance	ASTM D-4060 CS-17 wheels 1000 g/wheel / 1000 revolutions	13 mg loss
Water absorption	ASTM D-570 7 days immersion at room temperature	0.34%

This information is based on tests we believe to be reliable. Since conditions of use are beyond our control, we do not assume any liability except the replacement of an equal quantity of any product which is proven defective and for which we are responsible.