

Imprint®

Dynamic Surface Applications,
Ltd.

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PRODUCT DESCRIPTION:

Uses:

The **Imprint** surfacing system is used extensively on crosswalks, intersections, sidewalks, downtown revitalizations and traffic calming applications. Imprint is a decorative surfacing system that provides a wide range of options where the functional appeal of paver products is a requirement. It is available for use in both highway and pedestrian areas. It is suitable for sites with high numbers of vehicles per day, and is formulated to have very good resistance to rutting and deformation. Imprint is supplied, as a through colored material so surface abrasion will not detract from the overall color of the material. Imprint can be installed with minimum disruption to existing traffic conditions.



Benefits

- ❖ Quick to install, can be open to traffic in under 1 hour even in hot climates
- ❖ No excavation, applied onto an existing surface at an average thickness of 3/4" thick
- ❖ Material colored throughout so color does not 'wear off'
- ❖ Available in a variety of colors and patterns
- ❖ Can be applied all year round
- ❖ Highly durable and proven track record of lasting 10 years in sites with 50,000 plus vehicles per day
- ❖ High friction surface to reduce slipping
- ❖ Installed in the United States since 2001 and throughout the world since 1994

Application Instructions

Imprint can be applied to bituminous and concrete road surfaces, providing they are free from serious cracks, spalling failure and in stable condition.

Imprint can be installed raised, inlaid or to augment existing traffic calming feature

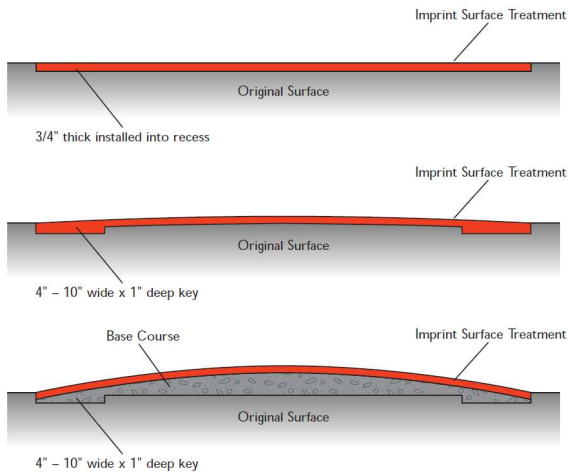


Table 1 – Imprint Properties			
Grade	45 For use in Northern US/Canada – light/medium traffic in Southern USA	60 For use in rest of US states on heavily trafficked areas	70 For use in hot climate states
Av. Temperature range	5°F – 113°F	10°F – 140°F	32°F – 158°F
Wheel tracking at 113°F	<1mm/hour	<1mm/hour	<1mm/hour
Wheel tracking at 140°F	N/A	<5mm/hour	<10mm/hour (158°F)
Density	2.12	2.12	2.12
Cone Flow Test (5 hours @ 194°F)	15% maximum	15% maximum	10% maximum
Plane Test (5 hours @ 194°F)	5% maximum	5% maximum	5% maximum
Indent @ 104°F	25 dmm maximum	50 dmm maximum	N/A
Indent @ 122°F	N/A	75 dmm maximum	30 dmm maximum
Ash content	90% maximum	90% maximum	90% maximum

Surfaces with a high degree of porosity require a primer before Imprint is installed.

Surfaces that may be subject to movement in vertical or horizontal direction should be avoided, as there may be a risk of reflective cracking through to the Imprint surfacing.

For example, in asphalt surfacing if there is a weakness in the underlying courses and the surface sinks under the action of traffic, this could cause a crack to reflect through the Imprint layer. Movements at construction joints or movements due to interlayer adhesion failure may also cause adverse effects in the Imprint layer.

For concrete surfaces the two common situations to avoid are mid-bay cracking and construction joints. Preferred detail is to lay the Imprint pattern in such a way as to reflect the natural joints of the pattern with the construction joints in the substrate. Any movement that occurs can be accommodated without causing stress in the Imprint surfacing.

A tack coat should be applied to stone rich or polished surfaces and to concrete surfaces for extra adhesion.

PATTERNS

Running Bond Brick, Herringbone (90° & 45°), Cobbles tone, Basketweave and Granite Sett. Other patterns available upon request.

COLORS

Oxide Red, Burnt Red, Reading Red, Brown, Stone, Fawn, Light Gray and Dark Gray.

APPLICATION TEMPERATURE

Typical application temperature: 375°F – 420°F

The maximum safe heating temperature is 440°F

SKID RESISTANCE

Imprint can achieve a skid resistance value in excess of SRV 60.

APPLICATION THICKNESS

Imprint can be applied at thicknesses of 1/2" on pedestrian areas and up to 1" thick. Average thickness depth 3/4"

GRADE SELECTION

Imprint is available in various grades. Grade 45 is typically used in temperate climates. Grade 60 in warm climates.

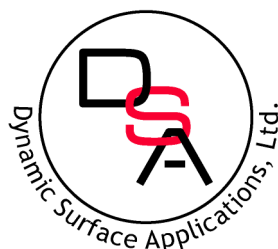
Other grades are available for very warm climates - grade 70. The resistance to rutting is improved, indicating better resistance to traffic effects.

INDENT PERFORMANCE

Grade 45 Less than 50 dmm at 105°F

Grade 60 Less than 50 dmm at 125°F

Grade 70 Less than 25 dmm at 140°F



CONDITIONS

Road temperature: Minimum 32°F and rising

FLASH POINT

475°F