

## Luxafloor<sup>®</sup> Aggregates

### 3.11.1

#### Dulux<sup>®</sup> Offering/Range

Dulux<sup>®</sup> Protective Coatings offer a range of aggregates that have been **specifically developed** for compatible use with the **Luxafloor<sup>®</sup> range**. The incorporation of Dulux<sup>®</sup> aggregates into a flooring system aids in providing a selection of slip resistant surfaces that will help promote safety in the work place.

#### Luxafloor<sup>®</sup> Stir-in Aggregate

The **Luxafloor<sup>®</sup> Stir-in Aggregate range** is suitable for use in a number of Dulux Protective Coatings including the **Luxafloor<sup>®</sup> ECO2™** and **Luxafloor<sup>®</sup> RollCoat™** flooring products. Luxafloor<sup>®</sup> Stir-In Aggregates are available in either a fine or coarse grade making them ideal for a wide range of non-slip flooring requirements.

Dulux<sup>®</sup> recommends the **fine stir-in grade** for **thinner products** such as Luxafloor<sup>®</sup> ECO2™ and the **coarser stir-in grade** for **thicker products** such as Luxafloor<sup>®</sup> RollCoat™. Deviation from these recommendations may reduce the effectiveness of the aggregate in the coating due to the aggregate getting lost in the coating or balling up.



Unlike most stir-in aggregates, Luxafloor<sup>®</sup> Stir-In Aggregates are easy to use. They are simply added to previously mixed and thinned paint using a power mixer and brisk stirring. Our stir-in grades are **uniquely designed to easily distribute** throughout the wet paint and maintain a uniform distribution. Once the aggregate is incorporated into the wet paint, application can then occur. The use of stir in aggregate may make it easier to achieve a more uniform slip resistant finish throughout the coating compared to broadcasting aggregate.

Stir-in aggregates must only be used in the **finish/top coat** of the coating system. Any **additional coats** over the layer containing the aggregate will **compromise** the slip resistance of the coating.

Some common areas of application of the Luxafloor<sup>®</sup> Stir-In Aggregates include **public pedestrian surfaces, carparks, warehouses and garages** requiring non-slip characteristics.

#### Luxafloor<sup>®</sup> Broadcast Aggregate No.36

**Broadcast aggregate** is recommended to be used with **Luxafloor<sup>®</sup> RollCoat™** however its use with other coating systems is more flexible.

The broadcasting aggregate is **hard, angular** and **coarser** than the stir-in grades and hence higher slip resistance ratings can be achieved.

The slip resistant aggregate is **broadcast by hand** onto the wet coat. Once the coating has dried, any excess or loose aggregate is brushed away and then **sealed** with a following coat, sandwiching the aggregate between the two coats. The broadcast aggregate must only be used when **sandwiched between the final two coating layers**. Any subsequent coats may compromise the slip resistance of the coating.

Due to the **manual distribution** of the broadcast aggregate it can be difficult to obtain a uniform result across the entire coating.

Broadcast Aggregate No.36 is suitable **for heavy duty applications** such as **commercial kitchens and industrial areas**.

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#### Aggregate Dosage

When adding Luxafloor<sup>®</sup> Aggregates to a coating system, ensure that the **recommended dosage levels** are followed. **Excess amounts** of aggregate may **impact on the performance** of the protective coating. Conversely, **insufficient amounts** of aggregate may make it more **difficult** to achieve the desired slip resistant rating.

Refer to the Luxafloor<sup>®</sup> Aggregate **data sheet** for the recommended dosage levels of the Luxafloor<sup>®</sup> Stir-In Aggregate and Luxafloor<sup>®</sup> Broadcast Aggregate No.36 for each coating system.



#### Protective Coating Systems

Below is a guideline of the slip resistance ratings that may be achieved through the use of the Luxafloor<sup>®</sup> Aggregates with the Luxafloor<sup>®</sup> flooring range.

Aggregate	Product	Wet Pendulum	Wet Ramp
<b>No Aggregate</b>	Luxafloor <sup>®</sup> ECO2™	Z	N/A
	Luxafloor <sup>®</sup> RollCoat™	Y	N/A
<b>Stir-In Fine</b>	Luxafloor <sup>®</sup> ECO2™	W	R11
	Luxafloor <sup>®</sup> RollCoat™	Y	N/A
<b>Stir-In Coarse</b>	Luxafloor <sup>®</sup> RollCoat™	W	R10
<b>Broadcast No.36</b>	Luxafloor <sup>®</sup> RollCoat™	V	N/A

\*Refer to the Luxafloor<sup>®</sup> Aggregate data sheet for slip resistance ratings possible with other Dulux<sup>®</sup> products.

#### On-Site Testing

Although Dulux<sup>®</sup> has reference to slip resistance ratings that can be achieved using recommended systems, the **appearance** and **performance** of the finished coating is dependant on the **application technique** and **characteristics** of the surface being coated. Independent **on-site testing** of the surface may also be required to obtain more accurate slip ratings of the specific coated surface and to ensure that the **required ratings have been achieved**. On-site testing using the wet pendulum method is covered in **AS/NZS 4663 – Slip Resistance Measurement of Existing Pedestrian Surfaces**.

For more information regarding slip resistance and aggregates refer to **Dulux<sup>®</sup> Protective Coatings Tech Note 3.11**.

For more technical advice, please contact the Dulux<sup>®</sup> Protective Coatings Technical Consultant in your state.