



**RAZON**



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## SHUTTER COAT SC – 20003

(High Performance Mould release agent for clean, easy & smooth release.)

Razon Shutter Coat SC 20003 is designed for applications on plywood, mild-steel (MS), aluminium & plastic formworks, rubber moulds where smooth release on de-shuttering or de-moulding is desired.

Shuttering plywood are generally found to work well for the initial 1-2 cycles. Thereafter it is observed that concrete bonds to wood and streaks of wood come off from the plywood reducing its life considerably. Friction between shuttering ply surface & flowing concrete affect concrete filling leading to voids in concrete, honey combing and unsatisfactory surface finish.

Although the plywood is termite resistant, its solution dissolves in water and gets washed away. Degradation due to ultra violet radiation accelerates further deterioration, decreasing the life of the shuttering materials.

Generally, spent engine oils are sometimes used. However, high pH values associated with these oils damage the wood fibres as well as binders used in manufacture of plywood, and reduce its life considerably. If spent engine oil is used, it is found adhering to concrete surface after de shuttering. The presence of oil film on concrete surfaces makes plastering expensive & difficult.

Concrete admixtures are used extensively to increase cohesiveness of concrete and to enhance bonding properties to steel reinforcements. These concrete admixture tend to adhere to shuttering material. Hence the protection of shuttering material for increased life becomes more essential.

Razon Shutter Coat SC 20003 is a unique formulation with neutral pH, hence does not degrade binders in plywood nor does it affect the wood fiber, in fact it protects wood fibers. It has anti –fungal and anti-bacterial properties hence eliminates bacterial and algae fouling.

Immediately after de-shuttering, clean formwork thoroughly. Apply shutter coat either by brush or roller. This procedure is better than treating shuttering material just before use. It protects the shuttering plywood in between use cycles, and also increases its life.

Shutter Coat SC 20003 is ideal for formworks:-

- Easy release, and no degradation of formwork or moulds due to adhered concrete.
- Protection of ply from algae and bacterial fouling.
- Increases life of shuttering material by 1.5-2 fold.
- Enhances surface finish, makes the formwork surface smooth, hence increasing UV radiation reflection.
- Reduces friction between flowing concrete and formwork surfaces
- Ensures fair-faced concrete
- High Economy
- Ergonomic
- Gives smooth concrete finish.
- Does not adhere to concrete surface after de shuttering. Hence does not interfere with plastering. Thus reduces plastering cost.

## Method of use

Stir contents in Shutter-Coat SC 20003 container thoroughly. Mix with water in ratio 1:3 to 1:5 in a clean container, depending upon smoothness desired. Lower or higher mix ratios may be used depending on nature of application. For smooth form finish concrete use 1:4 proportion. Apply with clean brush or roller over the surface exposed to concrete. It is recommended that SC 20003 be consumed with 24 hours of dilution with water. For new plywood apply on all sides. Clean surface thoroughly prior to coating Shutter Coat SC 20003.

## Performance:

Sr. No.	Parameters	Test Method	Result
1.	Specific Gravity at 27 <sup>0</sup> C	IS 1448 (P:16)	0.82 – 0.90 grams/cc
2.	Flash Point	IS 1448 Part 20	246 <sup>0</sup> C
3.	Pour Point	IS 1448 (P:32)	Below 4 <sup>0</sup> C

## Product Data:

Sr. No.	PRODUCT DATA	
1	Colour	Dark Tan colour
2	Consistency	Free flowing fluid
3	Specific Gravity	< 1.0
4	Dosage	Use is proportion of 1:3 – 1:5 with water.
5	Corrosion	Nil. Shutter Coat for metal provides metal passivation & increase sheet metal life tremendously.
6	Storage /Life	1 when stored away from direct sunlight in cool dry place in sealed container.
7	Toxicity	Nil
8	Coverage	200-250 sq ft per ltr.
9	Packing	200 ltr drums.

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It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable. All Razon datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.



MANUFACTURER:



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