

## Mold Release Agents and Curing Compounds / Curing Compounds

# KURFIX® 400

Solvent Based Curing Compound and Surface Protector

## DESCRIPTION

Transparent yellow color, **hydrocarbon solvents** and **acrylic resin** based, solventborne liquid **curing compound** and **surface protector** which prevents quick loss of water. Generates a protective layer, and reduces the abrasion by penetrating the capillary structure of the surface. Forms a film layer which reduces shrinkage cracks on the surface by preventing the water inside the fresh concrete from evaporating. Reduces surface abrasion by binding the particles on the surface stronger to each other.

## APPLICATION AREAS

- Indoor and outdoor,
- All vertical and horizontal concrete surfaces,
- Concrete, brick, stone and plaster coated wall surfaces,
- Wooden, terracotta, concrete and screed floors indoors,
- Right after fresh concrete and surface hardener applications for curing purposes,
- Concrete applications where the air flow and evaporation is high and the moisture is low,
- Surfaces which will later be covered with paint, ceramics, epoxy etc.
- Airport and concrete slabs,
- Concrete roads and bridges,
- Canals and dams,
- Retaining walls,
- Terraces.

## TECHNICAL PROPERTIES

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Appearance                       | Transparent yellow colored liquid |
| Appearance After the Application | Smooth, transparent layer         |
| Liquid Density                   | ~ 0.85 kg/L (20°C)                |
| Drying Time                      | 2 - 4 hours (ASTM C 309)          |
| Flash Point                      | +80°C                             |

## ADVANTAGES

### As Curing Material:

- Increases the resistance of the concrete.
- Prevents shrinkage cracks resulting from fast drying while concrete surface is cured.
- More effective than other curing methods such as sack or canvas laying or watering.
- Provides a more effective curing than the paraffin and acrylic based curing compounds.
- Compatible to cement, epoxy and polyurethane coatings.

### As Surface Protector:

- Generates a harder and dust free surface that is resistant to abrasion, by binding particles to each other.
- Protects the surface against moisture and provides resistance to oil, light acids and chemicals.
- Has water repellent property.
- Prevents plaster against cracks formed due to frost by avoiding water inflow.
- Protects porous surfaces against dirt and dusting. Allows ease of maintenance.
- Penetrates fresh concrete, does not form layers thus does not peel off and allows the surface to breathe.

## CONSUMPTION

170 - 250 g/m<sup>2</sup> (Varies depending on the absorption and roughness of the concrete surface.)

**PACKAGING**

14 kg tin cans and 165 kg barrels

## APPLICATION

**PREPARATION OF THE SURFACE**

Apply directly on fresh concrete or surface hardeners applied to fresh concrete with brush, roller or pressure spray equipment. However, in order not to damage the surface, the concrete must be **sufficiently** set. If used as a surface protector, the surface must be clean and dust free.

**APPLICATION**

- For formed concrete surfaces, apply the product immediately after formwork removal, before cold joints develop, as soon as the surface loses its initial gloss (i.e. when the surface water begins to evaporate). Apply by spray, brush, or roller, ensuring a uniform coat without puddling.
- Use a soft short-bristled brush on the wall, and a soft brush or roller on the floor.
- Apply to the surface as a thin layer of equal thickness.
- The surface becomes semi-matte after the application.
- Dries in approximately 2 – 4 hours (+20°C) depending on the ventilation and temperature. Wait 6 hours before the second layer.
- KÜRfIX 400 closes the pores totally.

**CAUTION**

- Contains solvent, flammable.
- Immediately after the outdoor applications, protect the concrete surface against factors such as snow and rain for 2-3 hours. At the end of this period, the curing material is not affected by external factors.
- Do not dilute.
- Do not apply on wet surfaces.
- Do not apply on non-porous, non-absorbent and glazed surfaces.
- Ensure air circulation during application.
- If there are high thickness differences in the application, stain formation may occur.

**SHELF LIFE**

Expires in 12 months. Store unopened packages in a closed environment which is not extremely hot. Shake well before use.

**HEALTH AND SAFETY**

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not approach with an open flame and do not smoke during application. Use only in sufficiently ventilated areas. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50%±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.