



**Technical Data
Sheet For:**

**INTACHEM™
INTER
40**

Description:
Concrete Cleaner &
Mortar Remover

Coverage:
3-4m/sq per litre

INTACHEM IS THE TRADE
MARK OF F&D BULK
SERVICES LTD

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Inter 40 has been specially formulated for the removal of cement and mortar stains from the surface of brick and sandstone. Also for cleaning concrete structures and concrete mixing machines. It will also aid the removal of efflorescent of sandstone and brickwork. It can be used on new brick or sandstone structure for cleaning cement/mortar staining.

Product Description:

It is an aqueous liquid containing a mixture of inorganic and organic acids. Although the agents present are classified as irritants we grade this product as corrosive, for additional safety. When adequately diluted the organic components are all biodegradable.

How to use the product:

Remove any large organic deposits with scrapper or by pressure water jetting before application of the chemical. Then, establish the method, contact time and number of treatments necessary by means of test patch trial. Pre-wet the masonry. Apply Inter 40 by brush (or with care by low pressure spray). Leave for 10-20 minutes before rinsing off. Contact times of longer than 1 hour are not beneficial.

For cleaning concrete structures degreasing may be necessary. Inter 40 will then act as an additional cleaning agent and neutralising wash, if applied onto pre-wetted blocks, left 10-20 minutes and then jetted off.

General Safety Precautions:

Containers should be stored in a safe place with caps secured and a trained responsible person detailed for security appointed, whether in depot, in transit or on site. Spillages must be dealt with immediately. Only competent persons should handle this product.

Ecology:

Inter 40 is a blend of organic and inorganic acidic products, of surface active agents, solvents and inhibitors. When adequately diluted the organic components are all biodegradable.

Materials to be avoided:

Aluminium and Zinc; Limestone, Portland stone, marble, calcited stone and slate.

Protection of Operatives:

Chemical protective suits are needed along with PVC gauntlet gloves, face shields and head covering and also suitable footwear. Nobody should be allowed to work or pass underneath areas being worked. All persons should be familiar with the required safety precautions and correct handling of the product.

First Aid:

Acid splashes on skin should be flushed with water. If the product comes in contact with eyes, flush with water followed by a mild eye rinse containing sodium bicarbonate. Contaminated clothing should be removed immediately.

Disposal of Containers:

When empty, containers should be filled with water and then emptied in an approved manner and then disposed of.

Safety Notes:

1. Always store containers in secure conditions.
2. Keep containers closed when not in use.
3. COSHH Data: Inter-40
4. Solubility: Totally miscible with water
5. S G: 1.035—1.065
6. pH Value: 1
7. Hazard classification: Contains Hydrochloric acid classified as IRRITANT (equiv. to UN 1789). Labelled as CORROSIVE for additional safety
8. Flammability: Not flammable
9. Physical Data: A clear fluid
10. NEVER leave container full or empty where the public may come into contact with them.
11. ALWAYS fill containers with water before disposing of them.

Important Notice:

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Safety Data Sheet For:

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1. IDENTIFICATION OF SUBSTANCES, PREPARATIONS AND COMPANY:

Name of Preparation: Inter-40
Supplier: IntaChem, 1 Irwin Drive, Nottingham NG6 7BJ

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Composition: Classified as HAZARDOUS for both supply and storage under CHIP regulations
Contains: (1) Hydrochloric acid 18%
Symbols: IRRITANT for supply
CORROSIVE for conveyance (UN No 1760)

3. HAZARDS IDENTIFICATION:

Inter 40 presents hazards to operators if not used correctly as hydrochloric acids irritant by skin contact, inhalation and if swallowed. Inter 40 presents little ecological hazard due to the large amounts of rinse water used in normal operations. Always consult local water authority and local council before disposal of waste water debris.

4. FIRST AID MEASURES:

Care should be taken to avoid contact with eyes and skin. If splashes occur the following procedures should be adopted:

- Wash all affected areas with liberal quantities of water for at least one minute
- Remove all contaminated clothing

5. FIRE FIGHTING PROCEDURES:

Eyes: Irrigate with water for 15 minutes ensuring water bathes the eyeball. Seek medical attention. **Ingestion:** Wash out mouth and throat frequently with water. Seek medical attention. **Skin:** Wash off with copious amounts of water. Remove contaminated clothing. Seek medical attention if the irritation persists. **Inhalation:** Remove to fresh atmosphere. Treat for ingestion.

6. ACCIDENTAL RELEASE MEASURES:

Always prevent skin and eye contact. Do not breathe fumes. Hose away small spillages to foul water sewer or absorb with sand/granules. For larger spillages or if water is not available, slowly cover with soil or sand. Neutralise with soda ash and dispose of separately. See also Exposure Controls and Personnel Protection—Section B.

7. HANDLING & STORAGE:

Handling: Ensure all information in this data sheet is read and understood before using the product. Do not allow the concentrated or dilute preparation to come into contact with eyes and skin. Wear full protective clothing, PVC overalls, gloves, face shield and rubber footwear. Use with care. Only experienced operatives should handle this product. Avoid inhalation of mist or fumes when using on stonework. Use cold only. Do not allow to come into contact with bleach.

Storage: Keep container tightly closed and in a well ventilated area away from oxidising agents (e.g. Bleach). Store only in labelled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Engineering Controls: Ensure that both operators carrying out the stone cleaning and the general public do not come into contact with concentrated product or wash water by following the procedures (close sheeting) outlined in BS8221 Code of Practice for the Cleaning of Stone and Masonry.

Respiratory protection is not normally required as a full face visor incorporated into a plastic wet suit is adequate for stone cleaning purposes when rinsing is carried out. Hands must always be protected by PVC gauntlet type ensuring no gaps between the protective suit and gloves. Wear full protective suit, rubber boots in addition to PVC and full face shield.

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance: Clear liquid
pH: Less than 1
Boiling Point: 100 degrees Celsius
Melting Point: Less than minus 20 degrees Celsius
Flash Point: Non Flammable
Specific Gravity: 1.050
Solubility in H₂O: Soluble in water in all proportions
Viscosity: 200 centipoises approx



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10. STABILITY & REACTIVITY:

Inter 40 is stable at normal ambient temperatures. Always use cold. Avoid contact with the following materials: Polished granite, aluminium, zinc. Inter 40 is not suitable for use on limestone, Portland stone, Bath stone, marble or calcited materials. If the product is accidentally heated toxic fumes of chlorides are emitted where the Occupational Exposure Standard for gaseous hydrogen chlorides is 5ppm (7.0mg/m³) for 10 mins ref. period.

11. TOXICOLOGICAL INFORMATION:

Inter 40 is irritant by skin contact, inhalation and if swallowed due to its content of hydrochloric acid, the irritancy of which overrides all other ingredients in the formulation. The preparation contains minor levels of glycol ether solvent below that necessary to class the product as harmful.

12. ECOLOGICAL INFORMATION:

The use of Inter 40 provides little ecological hazard as all organic detergents are fully biodegradable. The acid residues from washings are neutralised readily in soil to form calcium chloride. Experience has shown that when a stone is washed in the manner recommended the acid residues are not considered an ecological hazard.

Should the concentrated product be accidentally spilled into water courses, carry out procedures as detailed in previous sections for general spillage. Inform local water authority.

13. DISPOSAL CONSIDERATIONS:

Small quantities should be hosed away with copious amounts of water to foul sewer. Larger quantities should be absorbed with sand, granules or soil and the solid residue disposed of in an approved manner.

When empty, containers should be filled with water, rinsed clean and emptied to foul sewer. Containers may then be disposed via solid waste.

14. TRANSPORT INFORMATION:

Inter 40 is classified as IRRITANT for supply and CORROSIVE for conveyance according to CHIP.

Transport:	UN No 1760 Corrosive Liquid, NOS
Carriage:	Primary Hazard—CORROSIVE
Packaging:	Packing Group III

15. REGULATORY INFORMATION:

R&S Phrases

R36/37/38:	Irritating to eyes, respiratory system and skin.
S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37:	Wear suitable protective clothing and gloves.
S45:	In case of accident or you feel unwell, seek medical advice immediately and show this data sheet or the container label.

Refer to use instructions for building cleaning as detailed in BS8221 Code of Practice Cleaning of Stone and Masonry. All relevant procedures under the Health & Safety at Work Act and the Control of Substances Hazardous to Health regulations (CoSHH) must be observed. Prior to work commencing a full written CoSHH assessment must be carried out so that all personnel are aware of the handling precautions and operations necessary with this preparation. Possession of this data sheet does not constitute users own assessment of workplace risk as required by CoSHH, but fill form the basis of such assessment.

16. OTHER INFORMATION:

Training Advice: As Inter 40 contains irritant acids, full training in the use of this preparation must be given to operators to ensure they are aware of both health and safety precautions and operating procedure. Detailed advice on building cleaning methods is provided in the IntaChem Product data Sheet and BS8221 Code of Practice—Cleaning of Stone & Masonry. These bulletins must be read in conjunction with the safety data sheet before operations start.

Recommended uses and restrictions: Use for cleaning mortar stains and cement off brick and sandstone. Also for cleaning concentrate structures. Inter 40 should not be used on aluminium, zinc and limestone—see product data sheet.

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